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ABSTRACT

Compiled to serve as a reference to help teachers locate outdoor education materials available from Canadian government and private agencies, this catalogue lists services and publications which can be utilized by educators in planning and implementing outdoor education programs. Among the services listed is a sampling of organizations, departments, agencies, societies, and associations that can be contacted for information and resources for outdoor education programs: this includes addresses and, for most entries, telephone numbers. A list of campsites provides sources to contact and a checklist of items to consider in choosing facilities for programs. Publications, books, and audio-visual materials listed include those from various provincial departments, federal departments, and private organizations, arranged according to subject areas relevant to outdoor education and type of material (pamphlets, books, periodicals, cassettes and kits, filmloops, audio and video tapes, films, and maps, charts and air photos). Film listings are annotated; audio and video tapes are divided by age groups for which they would be appropriate. Parks and libraries which might be useful for outdoor education programs are also listed. (JD)

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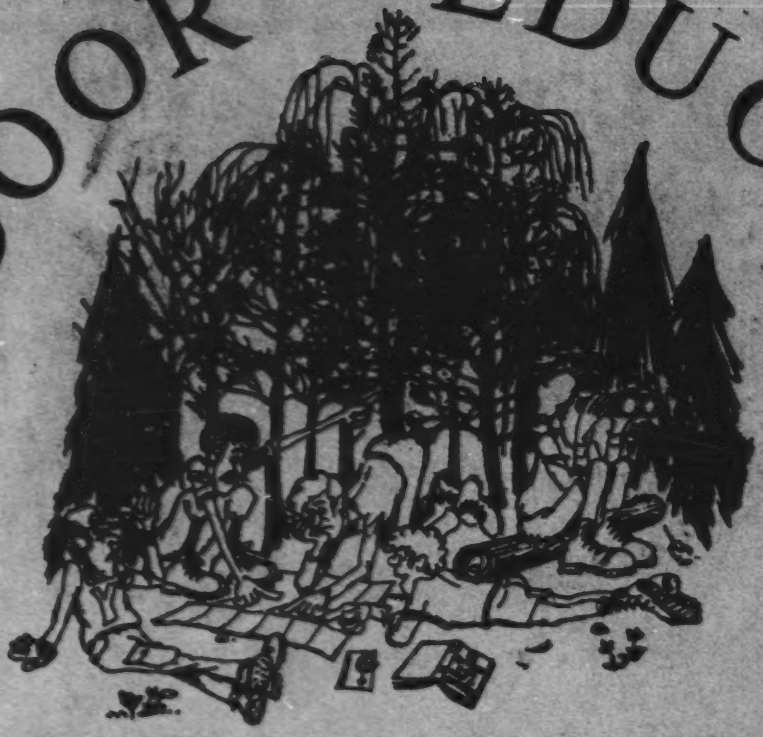

RESOURCE CATALOGUE

RC 012505

DEPARTMENT OF EDUCATION
PROVINCE OF MANITOBA
1980

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

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FOREWORD

The material in this catalogue has been compiled to serve as a ready reference for teachers, in order to assist them in locating outdoor education materials which are available from the various government departments and private organizations.

Additional copies may be obtained on request, but supply is limited.

As it is impossible to list all references and resources dealing with outdoor education, interested persons are asked to contact the appropriate agency for assistance and for further information.

A special thanks goes to all individuals and agencies who made contributions to this resource catalogue.

Curriculum Services
(Physical Education)
411 - 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Telephone: 786-0268

DEC 19 1980

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I SERVICES

A) AGENCIES AND ORGANIZATIONS

A) AGENCIES AND ORGANIZATIONS

The following organizations, and others listed in the catalogue, should be contacted and utilized, where possible, as resources for outdoor education programs. They may be able to provide speakers, assist with programs or serve as consultants. Contact the agencies or organizations listed to become more aware of their specific services.

This is only a sampling of the many organizations that are available. The following is by no means a complete listing.

Agency	Phone No.
City of Winnipeg Parks and Recreation Department	885-1500
Crafts Guild of Manitoba Inc.	943-6281
Manitoba Camping Association	944-4515
Manitoba Department of Fitness, Recreation and Sport (Recreation Services)	944-3766
Manitoba Environmental Council	895-5317
Manitoba Historical Society	943-7037
Manitoba Milk Producers' Marketing Board	786-6063
Manitoba Museum of Man and Nature (Education)	943-3204
Manitoba Naturalists Society	943-9029
Manitoba Outdoor Education Association (MTS)	888-7961
Manitoba Parks and Recreation Associations Inc. Ltd.	943-7839
Manitoba Physical Education Teachers Association (MTS)	888-7961
Manitoba Wildlife Federation	633-5967
Red Cross Society	772-2551
Seven Sisters Falls Wildlife Association	586-8493
Wildlife Foundation of Manitoba (Ft. Whyte Nature Centre)	895-7001
Y.M.C.A. (Camping Branch)	942-8157

B) CAMPS

B) CAMPS

The following is a list of some important items to check in considering a facility for an outdoor education program.

Administration

- Does the camp use a contract, or at least put the details and basis of agreement on paper?
- What are the costs involved? How much does the cost change with length of period, different activities, number of participants, services requested, etc.?
- Does the facility have all the necessary permits and licences? (e.g., fire permits)

Program

- To what types of activities does the facility best lend itself?
- Are there limitations on activities which may be done because of camp philosophy, policies, local conditions, etc.?

Personnel and Leadership

- Does the facility provide program resource staff? If so, how many and with what skills?
- Does the facility provide food service and maintenance staff?
- Will there be a readily identified person from the facility to act as liaison between facility staff members and teachers during the session?

Camp Site, Facilities and Equipment

- How many people can the facility accommodate comfortably?
- What equipment does the facility offer?
- What natural resources does the facility offer for program?
- What are the sleeping arrangements? Is there sufficient space per person, with adequate ventilation, heat, etc.?
- Who is responsible for bedding, towels, etc.?

Health

- What first aid or medical supplies are available?
- Is there provision for the isolation of a sick participant?
- Does the facility provide a nurse, or is that the responsibility of the school?
- How far away are doctor and hospital?
- Does the facility provide complete food and maintenance service? Ask about the adequacy of the menu.

Sanitation

- Does the facility have a licence to operate from the Department of Health?
- Check washrooms for adequacy.
- Check on dishwashing and handling procedure.

Safety

- If on a lake or pool, check to see whose responsibility it is to provide necessary lifeguards.
- Will the facility have a vehicle available for emergencies?

Transportation

- Whose responsibility is transportation for off-site excursions? If it is the facility's responsibility, check adequacy of vehicle(s) and whether or not drivers have proper licences, etc.

(Prepared for a session on "Camping Standards and How They Relate to Outdoor Education" at the Man in Nature Conference, Brandon, May 10-12, 1973, by Mac McCorquodale, Riding Mountain Conference Centre and Camp Wannakumbac)

Campsites Available for Outdoor Education

The following sites are available for use by school groups during the school year. For months open, staff and equipment available see the attached chart.

Please contact the camp concerned for further information.

1. Camp Name - B'nai B'rith Camp
   City Address - 370 Hargrave St.
   Winnipeg R3B 2K1
   Phone - 947-0601

   Camp Address - Kenora, Ontario

   Contact Person - Mel Hornstein

2. Camp Name - Caddy Lake - Girl Guides of Canada
   City Address - 200-267 Edmonton St.
   Winnipeg R3C 1S2
   Phone - 942-2458

   Camp Address - c/o Whiteshell P.O.
   Manitoba ROE 2HO
   Contact Person - Debbie Haynes

3. Camp Name - Camp Arnes
   City Address - 1151 Henderson Hwy.
   Winnipeg R2G 1L5
   Phone - 338-4647

   Camp Address - Box 40 , Arnes, Man.
   ROC OCO

   Contact Person - Lily Loewen

4. Camp Name - Camp Assiniboia
   City Address - 202-1483 Pembina Hwy.
   Winnipeg R3T 2C9
   Phone - 475-3550

   Camp Address - RR 1 Headingly, Man.
   ROH OJO

   Contact Person - Dave Bergen

5. Camp Name - Camp Brereton
   City Address - 706 Harstone Rd.
   Winnipeg R3R 1E2
   Phone - 837-1277

   Camp Address - Brereton Lake
   c/o Rennie Post Office
   Rennie, Man.

   Contact Person - Mrs. S. Parkinson

6. Camp Name - Camp Koinonia
   City Address - Box 312
   Boissevain, Man. ROK OEO
   Phone - 534-2504

   Camp Address - Box 312
   Boissevain, Man. ROK OEO

   Contact Person - Jake Neufeld

7. Camp Name - Camp Manitou (Y.M.C.A.)
   City Address - 301 Vaughan St.
   Winnipeg R3B 2N7
   Phone - 942-8157

   Camp Address - 301 Vaughan St.
   Winnipeg, R3B 2N7

   Contact Person - Bob Paterson

8. Camp Name - Camp Moose Lake
   City Address - Box 38 Sprague, Man.
   ROA 1ZO
   Phone - 475-3550

   Camp Address - Box 38 Sprague, Man.
   ROA 1ZO

   Contact Person - Carl Wiens

9. Camp Name - Camp Stephens
   City Address - 301 Vaughan St.
   Winnipeg, R3B 2N7
   Phone - 942-8157

   Camp Address - Fish Market Dock
   Kenora, Ontario

   Contact Person - Jim Leggat

10. Camp Name - Camp Wannakumbac
(Riding Mountain Conference Centre)
City Address - 437 Assiniboine Ave.
Winnipeg R3C 0Y5
Phone - 943-2500

Camp Address - Box 125 Onanole
Clear Lake, Man.
R0J 1N0

Contact Person - Bob Douglas

11. Camp Name - Camp Wasaga
City Address - 251 Wildwood Park
Winnipeg R3T 0E4
Phone - 475-7196

Camp Address - Onanole, Man.

Contact Person - Mrs. Sally Shwetz

12. Camp Name - Lakeside Camp
(Society for Crippled Children & Adults of Man.)
City Address - 325 Sherbrook St.
Winnipeg R2G 0K2
Phone - 786-5601

Camp Address - Box 1106
Gimli, Man. R0C 1B0

Contact Person - Mr. R.S. Newman

13. Camp Name - Lake Nutimik Baptist Camp
City Address - 7 Venus Bay
Winnipeg R3T 0Z4
Phone - 475-6402

Camp Address - P.O. Seven Sisters, Man.
R0E 1Y0

Contact Person - Wm. H. Rentz

14. Camp Name - Manitoba Pioneer Camp
City Address - 217-267 Edmonton St.
Winnipeg, R3C 1S2
Phone - 943-0717

Camp Address - c/o Kejick P.O.
Kenora, Ontario P0X 1E0

Contact Person - Bryan Hill

15. Camp Name - Red Rock Bible Camp
City Address - Box 790
Steinbach, Man. ROA 2AO
Phone - 326-9784

Camp Address - Rennie, Man. ROE 1RO

Contact Person - Cliff Dirks

16. Camp Name - Wellman Lake United Church Camp
City Address - Box 42
Swan River, Man. ROL 1ZO
Phone - 734-2957

Camp Address - Box 42
Swan River, Man. ROL 1ZO

Contact Person - Murray Wenstob

17. Camp Name - Y.M.C.A. Wilderness Programs
City Address - 301 Vaughan St.
Winnipeg, R3B 2N7
Phone - 942-8157

Camp Address - Fish Market Dock, Kenora, Ontario

Contact Person - Jim Leggat

*Additional Camps

TallPine Lodges
Whiteshell P.O.
West Hawk Lake, Manitoba
ROE 2HO (Ph. 349-2209)

Contact: Don and Nyn Draper

Activities include trail rides, hiking, swimming, boating, golf and tennis in summer; hay rides, snowshoeing, cross country and downhill skiing, snowmobiling in winter.

Gimli Leadership Training Centre
Box 1286
Gimli, Manitoba
ROC 1BO (Ph. 642-5547)

Contact: Buck Matiowski

Camp Name	Kilometers from Winnipeg	Direction from Winnipeg	September	October	November	December	January	February	March	April	May	June	Co-ordinator	Kitchen	Caretaker	Teaching	Counsellors	Canoes	Sailboats	Archery	Horses	Snowshoes	Skis	Swimming Pool	Rope Course	Orienteering	Skating Rink
			Months Available										Staff Available														Program Equipment Available
1. B'nai B'rith Camp	195	E	x								x	x	x	x	x		x	x									
2. Caddy Lake	180	E																									
3. Camp Arnes	120	N	x	x	x	x	x	x	x		x	x	x	x	x	x		x	x	x	x	x	x			x	
4. Camp Assiniboia	24	W	x	x	x	x	x	x	x	x	x	x	x	x	x					x	x	x		x	x		x
5. Camp Brereton	145	NE	x								x	x			x			x									
6. Camp Koinonia	290	SW	x	x	x	x	x	x	x	x	x	x		x	x			x		x		x					x
7. Camp Manitou	11	W	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x				x			
8. Camp Moose Lake	225	SE	x	x	x	x	x	x	x	x	x	x	x	x	x			x	x	x		x	x				x
9. Camp Stephens	192	E	x								x	x	x	x	x	x	x	x	x	x							
10. Camp Wannakumbac	280	NW	x	x	x	x		x	x	x	x	x	x	x	x			x		x							
11. Camp Wasaga	275	NW	x								x	x		x	x			x		x							
12. Lakeside Camp	105	N		x	x	x	x	x	x	x	x			x	x									x			
13. Lake Nutimik Baptist Camp	160	E	x	x	x	x	x	x	x	x	x				x			x		x							
14. Manitoba Pioneer Camp	150	E	x								x	x	x	x	x	x		x	x	x							
15. Red Rock Bible Camp	160	E	x	x			x	x	x		x	x	x	x	x			x		x		x	x				
16. Wellman Lake United Church Camp	420	NW										x			x			x		x							
17. Y.M.C.A. Wilderness Programs	192	E	x								x	x	x			x	x	x									

These camps are members of the Manitoba Camping Association and this list was compiled by Lily Loewen, Camp Arnes. For additional camps which provide school programs, refer to page 10.

II PUBLICATIONS, BOOKS, AND AUDIO-VISUAL AIDS

A) PROVINCIAL DEPARTMENTS

1. DEPARTMENT OF AGRICULTURE

Pamphlets

Pamphlets are available from:

Publications Section
Manitoba Department of Agriculture
411 York Avenue
Winnipeg, Manitoba
R3C 3M1

Telephone: 946-7801

How to Order: Request publications by mail or personal call.
Give the full title when ordering.

AGRICULTURE ENGINEERING

1461 Snow and Wind Control for Farmstead and Feedlot (CDA)

1488 Irrigation on the Prairies (CDA)

1528 Methane Gas Production from Animal Waste (CDA)

1534 Canada Animal Waste Management Guide (CDA)

1588 Farm Workshops (CDA)

ANIMAL SCIENCE

(1) Beef

Insect Control on Livestock

Livestock and the Environment

1361 Stock Poisoning Plants in Western Canada (CDA)

1417 Pictures - Beef Cattle (CDA)

1461 Snow and Wind Control for Farmstead and Feedlot (CDA)

1515 Protein Sources for Livestock (CDA)

1557 The Registration of Animals in Canada (CDA)

(1) Beef (Cont'd)

1579 Canada's Beef Grading System (CDA)

1589 Management of Prairie Rangeland (CDA)

(2) Dairy

Livestock and the Environment

1414 Pictures - Cheese-Making (CDA)

1418 Pictures - Dairy Cattle (CDA)

1432 Management and Feeding of Young Dairy Animals (CDA)

(3) Poultry

Livestock and the Environment

1344 Pictures - The Canadian Turkey Industry (CDA)

1345 Pictures - Geese (CDA)

1346 Pictures - The Canadian Broiler Industry (CDA)

1347 Pictures - The Canadian Egg Industry (CDA)

1348 Pictures - Breeds of Chickens (CDA)

1349 Pictures - Ducks (CDA)

1524 Managing a Small Duck Flock (CDA)

1573 Care of Hatching Eggs for Incubation (CDA)

(4) Sheep

Livestock and the Environment

1419 Pictures - Sheep (CDA)

(5) Horses

Livestock and the Environment

1598 Horse Breeds - Pictures (CDA)

(6) Swine

Livestock and the Environment

1599 Pictures - Swine Breeds (CDA)

ENTOMOLOGY

Insect Control

Mosquitoes

Insects and Mites of Manitoba

Agriculture and the Environment

Forest Tent Caterpillars (leaflet)

1446 Ticks Affecting Man and Dogs in Canada

1518 Pesticides - Their Implications for Agriculture (CDA)

PLANT SCIENCE

(1) Field Crops

1386 What You Should Know About Wheat (CDA)

1410 What You Should Know About Coarse Grain (CDA)

1412 What You Should Know About Seeds (CDA)

(2) Horticulture

Recommended List of Ornamental Shrubs and Trees

Recommended List of Fruit Varieties and Zonation Map

Recommended List of Vegetables

Recommended List of Annual and Perennial Flowers

Native Manitoba Plants in Bog, Bush and Prairie (Adex 200-01)

List of Registered Commercial Nurseries

(2) Horticulture (Cont'd)

Prairie Garden Index (1967-1977)

1561 Terrariums (CDA)

1575 Northern Gardening (CDA)

(3) Soils

The Nature and Management of Saline Soils

Soil Testing

1083 Soil Erosion by Water (CDA)

1266 Soil Erosion by Wind (CDA)

1338 What You Should Know About Soil (CDA)

(4) Weeds

820 Poison Ivy (CDA)

RURAL DEVELOPMENT

ARDA Yearbook - Manitoba, 1972-73

Federal Provincial FRED Agreement,1972

FRED Plan, Manitoba Interlake Annual Report

1415 Pictures - Northern Agriculture (CDA)

GENERAL AGRICULTURE

1486 What You Should Know About Pollution and Agriculture (CDA)

1496 The Metric System for Farmers (CDA)

2. DEPARTMENT OF EDUCATION

a) Curriculum Services

b) Education Library

c) Production and School Broadcasts

d) School Film Services

2. DEPARTMENT OF EDUCATION

a) CURRICULUM SERVICES (PHYSICAL EDUCATION)

PAMPHLETS

The following items are available in limited quantities, free of charge, from:

Curriculum Services
(Physical Education)
Department of Education
411 - 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Telephone: 786-0268

PHILOSOPHY

Outdoor Education, Curriculum Branch, Department of Education

What is Outdoor Education?

HISTORY

A Brief History of Outdoor Education in Manitoba

TEACHER AIDS

General Procedure for Teachers Intending to Guide a Field Experience

Field Trip Guideline

School Grounds Survey: An Inventory of Outdoor Education Facilities

The World Outside Your Window

Awareness

Tips for Observing and Studying in the Outdoors

OUTDOOR RECREATION NEEDS

Emergency Foods

What to Wear X-C Skiing

Backpacking Tents

Camping Gear You Can Make

Schools and X-C Skis

OUTDOOR EDUCATION SITES

Fort Whyte Nature Trail

Outdoor Education Sites in Winnipeg

Outdoor Education Sites in Dauphin

Outdoor Education Sites in Portage la Prairie

Outdoor Education Sites in Brandon

Murdoch MacKay Nature Area (Transcona)

Kildonan Park

Seine River Park

Fraser's Grove Park

Sargent Park

Places to Visit in Downtown Winnipeg

OUTDOOR EDUCATION ACTIVITIES

Possible Outdoor Activities in Birds Hill Park

Weather Definitions

Rules for Amateur Weather Prediction

Weather and Clouds

Selected Books in Outdoor Education

An Outdoor Laboratory for Your School

Edible Plants

Fungi Collecting and Spore Printing

Outdoor Education Activities for Elementary

The Cemetery: An Educational Resource

Prendergast Elementary School: Out-of-Door and Outdoor Education Flow Chart

Regina Board of Education - Playground Activities

An Approach to School Site Development

Canoeing

Mathematics in the Out-of-Doors

Summary of School Site Resources and Suggested Outdoor Education Activities for First Grade

Ten-Minute Walk - Grades 2-5

Ten-Minute Walk - Grades 3-5

Exploration Walk

Our Tree; A Primary Level Exercise

Outdoor Education Activities for Junior HIgh

Outdoor Education Activities in Hadashville

Treasure Hunt (for use at the Museum of Man and Nature)

Outdoor Education Curriculum Series - Science

Suggested School Site Outdoor Education Activities

Steps to Build an Igloo

Outdoor Education: Winter Wilderness (sample school program)

Backpacking Leadership Program

Winter Games

Insect Collecting

Community Oriented Math in Outdoor Education

Making Use of Snow

Arithmetic - 6th Grade - Growth in Arithmetic

Outdoor Education Curriculum Series - Have You Tried Adopting a Tree?

Outdoor Education Curriculum Series - Science and Mathematics

2. DEPARTMENT OF EDUCATION

b) EDUCATION LIBRARY

Department of Education
Main Floor
1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Telephone: 786-0218

(WATS TOLLFREE LINE: 1-800-262-8848)
(Outside Winnipeg)

BOOKS AND PAMPHLETS FOR LOAN

To Borrow:

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3. Loan of materials is free of charge. Postage is paid both ways by the Department of Education.
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Monday - Thursday: 8:30 a.m. - 9:00 p.m.

Friday: 8:30 a.m. - 5:00 p.m.

Saturday: 9:00 a.m. - 4:00 p.m.

June, July & August:

Monday - Friday: 8:30 a.m. - 4:30 p.m.

(Closed Saturdays & evenings)

DEPARTMENT OF EDUCATION

EDUCATION LIBRARY

(i) Books

OUTDOOR AND ENVIRONMENTAL EDUCATION

574 Allen, Durward L. The Life of Prairies and Plains. Toronto: McGraw-Hill, 1967.

507.2 Barr, George. Young Scientist Takes A Ride: Guide to Outdoor Observations from a Car Window. New York: McGraw-Hill, 1960.

507.2 Barr, George. Young Scientist Takes A Walk: Guide to Outdoor Observations. New York: McGraw-Hill, 1959.

500.107 Brainerd, John W. Nature Study for Conservation: A Handbook for Environmental Education. New York: Macmillan, 1966.

574 Brown, Vinson. Knowing the Outdoors in the Dark. New York: Macmillan, 1972.

371.38 Donaldson, George W. Perspectives on Outdoor Education: Readings. Dubuque: Wm. C. Brown Co. Publishers, 1972.

371.38 Donaldson, Lou and George. Teaching in the Field.

372.357 Environmental Discovery Units. The National Wildlife Federation, Vol. 1 - 24.

371.38 _____. Project Environment: Education for the Environment. London: Longman Group Limited, 1974.

500 Fuller, Richard Buckminister. Approaching the Benign Environment. University of Alabama: University of Alabama Press, 1970.

372.357 Goff, Paul. Nature, Children and You. New York: Exposition Press, 1974.

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372.357 Hamilton, Charles E. Eco; Suggested Activities to Motivate the Teaching of Elementary Ecology. Stephensville: Education Service, Inc., 1974.

371.38 Hammerman, Donald R. Outdoor Education: A Book of Readings. Minneapolis: Burgess, 1973.

371.393 Hammerman, Donald R. Teaching in the Outdoors. Minneapolis: Burgess, 1964.

372.83 Harris, Melville. Environmental Studies. New York: Citation Press, 1971.

371.623 Hibbs, Clyde William. An Analysis of the Development and Use of Outdoor Laboratories in Teaching Conservation in Public Schools. Ann Arbor, Michigan: University Microfilms, 1958.

574.92 Hofmann, Melita. A Trip to the Pond; An Adventure in Nature. Garden City, New York: Parker Pub. Co., 1970.

301.310712 Kotsonis, Helen Hoch. Modern Lesson Plans in Environmental Science. West Nyach, New York: Parker Pub. Co., 1972.

500.9 McMillan, Bill and Vicky. Nature Quizzes for Canadians. Toronto: J.J. Douglas Ltd., 1976.

371.38 Northern Illinois University, Department of Outdoor Teacher Education. Tips and Tricks in Outdoor Education: Approaches to Providing Children with Educational Experiences in the Out-of-Doors. Danville, Ill.: Interstate Printers and Publishers, 1970.

796.5 Ormond, Clyde. Complete Book of Outdoor Lore. New York: Harper and Row Publishers, 1964.

371.381 _____. Outdoor Education Manual. Ontario Teachers' Federation Outdoor Education Committee, 1970.

507.2 Pettit, Ted S. A Guide to Nature Projects. New York: W.W. Norton & Co. Inc., 1966.

371.38 American Association for Health, Physical Education and Recreation. Research in Outdoor Education. Washington, D.C.: The Association, 1973.

574.92 Robinson, Carmelita Klipple. Life in a Pond. New York: Golden Press, 1967.

Rosengren, J.H. Outdoor Science for the Elementary Grades. Scarborough, Ontario: Prentice Hall of Canada, 1972.

372.357 Russell, Helen Ross. Ten Minute Field Trips: Using the School Grounds for Environmental Studies. Chicago: J.G. Ferguson Pub. Co., 1973.

372.357 Sale, Larry L. Environmental Education in the Elementary School. New York: Holt, Rinehart and Winston, 1972.

301.3107 Schoenfield, Clarence Albert, comp. Outlines of Environmental Education. Madison, Wisconsin: Dembar Educational Research Services, 1971.

372.357 Schools Council Environmental Studies Project. Case Studies. London: Rupert, Hart-Davis Educational Publications, 1972.

372.357 Schramm, Wilbur. Classroom Out-of-Doors: Education through School Camping. Kalamazoo, Michigan: Sequoia Press/Publishers, 1969.

372.357 Shugrue, Sylvia K. Environmental Education in the Elementary School. Washington: National Science Teachers Association, 1972.

371.38 Smith, Julian. Outdoor Education. Englewood Cliffs, N.J.: Prentice-Hall Inc., 1972.

301.31071 Troost, Cornelius J., comp. Environmental Education: A Source-book. New York: Wiley, 1972.

372.357 United States Department of the Interior, Bureau of Land Management. All Around You: An Environmental Study Guide. 1976.

372.357 _____. A Better Place to be. Washington: U.S. Department of the Interior, 1976.

500.1016 Wilton, Harry N.M. Man and the Environment: A Bibliography of Selected Publications of the United Nations System, 1946-71. New York: Unipub., 1972.

372.83 Werling, Donn Paul. Environmental Education and Your School Site. Chicago: Open Lands Project in cooperation with the Illinois Institute for Environmental Quality, 1973.

574.92 Zim, Herbert S. Seashores: A Guide to Animals and Plants along the Beaches. New York: Golden Press, 1955.

523 Zim, Herbert S. Stars: A Guide to the Constellations, Sun, Moon, Planets and Other Features of the Heavens. New York: Golden Press, 1956.

ECOLOGY

574.5 Andrews, William (editor). A Guide to the Study of Terrestrial Ecology. Scarborough, Ontario: Prentice-Hall, 1974.

574.5 Cailliet, Greg M. Everyman's Guide to Ecological Living. New York: Macmillan, 1971.

574.0712 Clark, Elizabeth. Fieldwork in Biology: An Environmental Approach. London: Macmillan Education Limited, 1973.

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How to Shoot a Bow and Arrow.

ATHLETICS - APPARATUS AND EQUIPMENT

State University of New York. One Hundred Yard Outdoor Obstacle Course for Boys, Grades 7-12.

Athletics in Education.

Know the Game.

Nutrition for Athletes.

CONSERVATION OF NATURAL RESOURCES

United States Department of the Interior. It's Your World...the Grassroots Conservation Story.

The Directory of Free and Inexpensive Environmental Education Publications.

The Environment Needs You.

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Department of Mines, Resources and Environmental Management. Eco-Activities for Elementary Schools.

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DEPARTMENT OF EDUCATION

EDUCATION LIBRARY

(iii) Periodicals

Periodicals do not leave the Department of Education Library. Winnipeg teachers are requested to come in person to the library to use these materials. Teachers outside Winnipeg can receive free of charge, limited numbers of xeroxed copies of requested magazine articles.

PERIODICALS INCLUDE:

Arctic in Colour.

Bulletin of Environmental Education. London: Education Unit of Town and Country Planning Association. (11 issues yearly)

Conservation Canada. Ottawa: Parks Canada. (4 issues yearly)

Environmental Science Teachers Association of Ontario Bulletin.

GEOS. Ottawa: Department of Energy, Mines and Resources. (4 issues yearly)

Journal of Outdoor Education. Oregon: Northern Illinois University. (2 issues yearly)

Manitoba Nature. Winnipeg: Manitoba Nature Inc. (4 issues yearly)

National Geographic. Washington: National Geographic Society. (monthly)

National Geographic World. Washington: National Geographic Society. (monthly)

National Wildlife. Milwaukee: National Wildlife Federation. (6 issues yearly)

Natural History. New York: The American Museum of Natural History. (6 issues yearly)

Nature Canada. Ottawa: Canadian Nature Federation. (4 issues yearly)

Outdoor Canada. Toronto: Outdoor Canada Magazine Limited. (7 issues yearly)

Ranger Rick's Nature Magazine.

DEPARTMENT OF EDUCATION

EDUCATION LIBRARY

(iv) Cassettes and Kits

HOW TO BORROW:

1. Write or phone the Library, giving the Dewey classification number and the title of the item(s) you require.

2. It is advisable to prepare a list of titles in order of preference, so that mailing will not be delayed should some titles not be available. The Library is not equipped to book records and kits in advance.

3. Patrons may borrow up to 4 records or cassettes and 2 kits for a period of 4 weeks.

4. Loan of these materials is free of charge. Postage is paid both ways by the Department of Education.

ECOLOGY

K 301.3 E96 — Exploring Your Environmental Choices; An Inquiry and Decision Making Approach. Metropolitan Life Insurance Company, c1974. (multi-media)

K 301.3 J64 — Johnson, J. Leonard. Ecolab; A Study of the Rural and Urban Environment. Learning concepts, 1971. (208 activity cards)

PD 301.3 Mc — McLaughlin, Roberta. Sing a Song of Home, Neighborhood and Community. Bowmar, 1956.

K 301.31 B44 — The Beer Can by the Highway. Schloat Productions, 1972. (1 filmstrip, 1 cassette, teacher's guide)

PT 301.31 C65 — Commoner, Barry. Science and Social Action. National Science Teachers Association, 1972. (6 cassettes, 6 filmstrips)

K 301.31 E3 — Ecology: Understanding the Crisis. Encyclopedia Brittanica Educational Corporation, 1972. (6 cassettes, 6 filmstrips)

PT 301.31 L5d — "Limits to Growth" and Its Detractors. C.B.C. (Learning Systems)

PT 301.31 L5p — "Limits to Growth" and Its Proponents. C.B.C. (Learning Systems)

K 391.31 M35 — Man and His Environment: in Harmony and in Conflict. The Center for Humanities, c1971. (160 slides, 4 cassettes, 2 records, teacher's guide)

PT 301.32 P6 — Population Growth. C.B.C. (Learning Systems)

K 301.32 S35 — The Science and Ethics of Population Control: An Overburdened Earth? Science and Mankind, Inc., c 1975. (160 slides, 2 cassettes, 2 records, teacher's guide)

OUTDOOR EDUCATION

K 613.89 09 — Outdoor Survival. Moreland - Latchford. (6 filmstrips, 6 cassettes, guide)
Contents:
1. Water Rescue
2. First Aid in the Bush
3. Basic Distress Signals
4. Elementary Canoeing
5. Outdoor Survival Kit
6. How to Make a Fire and Shelter

K 796.5 A39 — Adventures with Map and Compass; Orienteering. International Media Systems, c1975. (3 filmstrips, 3 cassettes, teacher's manual)

K 796.5 098 — Outdoor Education. Moreland - Latchford. (6 filmstrips, 6 cassettes, guide)

K 796.5 088 — Outdoor Education (Kit). Gino Ferr (ed.) (2 filmstrips, 2 cassettes)

BIOLOGY

K 574 Ec — Ecology: Land and Water. Jamaica, N.Y., Eye Gate House. (4 filmstrips, 2 records)

K 574.5 E96 — Exploring Ecology. National Geographic Society, 1974. (5 filmstrips, 5 cassettes, teacher's guide)

K 574.5 W4 — What is Ecology? Warren Schloat, c1972. (1 filmstrip, 1 cassette, teacher's manual)

SCIENCE, ELEMENTARY AND SECONDARY

K 372.35 T38 — Taylor, Frank D. Exploring Our Environment: Science Tasks (Cards). Denver, Colo., Love Pub. Co., 1970.

PD 525 Do — Douglas, Robert. All About the Seasons. Vocalion, n.d.

K 550 Ea — Earth Science. Jamaica, New York, Eye Gate House. (10 filmstrips, 5 records, teacher's manual)

K 551.5 P37 — Parker, Don H. Weather and Climate. Chicago, SRA, c1963.

DEPARTMENT OF EDUCATION

EDUCATION LIBRARY

(v) 8 mm Filmloops on Outdoor Education

The following filmloops are available on loan for a four-week period from Education Library.

ARCHERY (2 Sets)

Fundamental Skills	91-0158	Colour
Nock, Anchor, Release	91-0166	Colour
Aiming - The Pre-Gap Method	91-0174	Colour
Aiming - The Sight Method	91-0182	Colour

SKIING (2 Sets)

Natural Instincts vs Learned Techniques	Code E1	Colour
Speed Control, Snow Plow	Code E2	Colour
Speed Control,Turns, Snow Plow	Code E3	Colour
Traverse	Code E4	Colour
Stem Turn	Code E5	Colour
Side Slipping, Uphill Turns	Code E6	Colour
Stem Christie	Code E7	Colour
Parallel Turns	Code E9	Colour
Speed Control	Code E10	Colour
Parallel Turns - Short Swing	Code E11	Colour
Tricks - Charleston	Code E12	Colour

SWIMMING (1 Set)

Drills for Building Confidence (3 min. 40 sec.)	91-1685	Colour
Methods of Floating (3 min. 35 sec.)	91-1693	Colour
Methods of Kicking (3 min. 40 sec.)	91-1701	Colour

2. DEPARTMENT OF EDUCATION

c) PRODUCTION AND SCHOOL BROADCASTS

AUDIO AND VIDEO TAPES

Available from:

Manitoba Department of Education
Production and School Broadcasts
216 - 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Telephone: 786-0225

Production and School Broadcasts Offers:

1. FREE AUDIO AND VIDEO TAPE DUBBING:

The master tapes are held by Production and School Broadcasts. To procure a copy of any one of the programs listed:

(1) Itemize the desired programs (by title of series, title of program and number). State name of school division, name of school and teacher.

(2) With the order, enclose sufficient footage of reel-to-reel tape or cassettes for dubbing the required programs.

a) for Audio:

A 5-inch reel (600 ft.) will accommodate up to 60 minutes of programming (double track 3 3/4 IPS); a 7-inch reel (1200 ft.) will accommodate up to 120 minutes (double track, 3 3/4 IPS). Cassette C-30 accommodates 15 minutes per side; C-60, 30 minutes per side; C-90, 45 minutes per side. IF SPLICING TAPE, USE ONLY the special type produced by manufacturers of magnetic tape. Programs cannot be "split" in dubbing onto cassettes or tapes. PLEASE DO NOT SEND ½ mil tape or C-120 cassettes, since recordings at 1 7/8 IPS or 4-track on reels are not provided for.

b) for Video:

Copies of video tape programs can be obtained on: EIAJ - Type 1, ½ inch black and white or colour; 3/4 inch video cassette black and white or colour; 1/2 inch video cassette (BETA or VHS).

2. TAPE PURCHASE DUBBING SERVICE:

Tapes can be procured without forwarding the blank tape required for dubbing. Quantities of tape will be held by the section office and the supplier will invoice the school or division for the amount of tape used.

2. TAPE PURCHASE DUBBING SERVICE (Cont'd)

Each school must forward to the section a purchase number and name of signing officer, when ordering, along with the other desired information.

Be sure to state all necessary information - purchase number and name of signing officer; name and address of division, billing address, school, teacher, title of series, program and tape numbers of programs to be dubbed; type of audio and/or video tape required, to be compatible with school playback equipment. STATE ALSO WHETHER THE INVOICE FOR TAPE SHOULD BE SENT TO THE SCHOOL OR THE DIVISION.

The section will dub the program(s) at NO COST to the school. A price list for tape is available from Production and School Broadcasts.

Order forms are available at the above address.

Programs are listed by age groups - 6-8, 9-12, 12-14, 14+ and general.

AUDIO AND VIDEO TAPES

(AT) (VT)

AGES 6 - 8

ART

THE MAKE-IT SHOP (20 min.)

Something To Touch and Feel VT#66

Presents stitchery collage approach to wall hangings from "found" materials.

MUSIC

SOUNDS 'N' SONGS (14:25 min.)

The main objective of this series is to make children aware of sound itself. People must actually perceive sound in order to understand the basic concepts of rhythm, melody, tone, colour and form. Listening, therefore, plays an important role in developing music concepts.

Nature Sounds (I) AT#2698

The elements: winds, water, storms, thunder.

Nature Sounds (II) AT#2703B

Insects.

Animals Sounds (I) AT#2708

Farm animals, pets.

Animal Sounds (II) AT#2713B

Wild animals; reindeer - holiday season; horse.

SCIENCE

CREATURES SMALL (12 min.)

To introduce children to interesting features of the life habits and characteristics of some of our most often seen insects.

1. The Honeybee AT#670
2. The Grasshopper AT#671
3. The Ant AT#673
4. The Dragonfly AT#1266
5. The Housefly AT#1732
6. The Mosquito AT#1735

ANIMAL HOMES

All creatures have homes - each suited to the lifestyle, needs and habits of the individual. This series deals with homes of a variety of creatures in three different groups of nature's families - birds, insects and animals.

1. Homes of Feathered Friends (30 min.) VT#513
2. Tree-Trunk Apartments (30 min.) VT#514
3. Homes of Finest Silk (30 min.) VT#515
4. Chickadee Chuckwagon (15 min.) VT#600A
5. At Home Between the Tides (15 min.) VT#601A
6. At Home in Rock Pools (15 min.) VT#602A
7. At Home in Sand and Eel Grass (15 min.) VT#603A
8. At Home on Stony Beaches (15 min.) VT#604A

IN OUR SCIENCE CORNER (30 min.)

The purpose of this series is to increase students' awareness and curiosity about their environment, to develop an inquiring attitude and to help them use a scientific approach to problem-solving.

Seems Like Magic VT#83B

Discover how people make heat and cold do "magical" things for them. A quiz concludes the program.

Coping With Cold VT#79B

Observe changes indoors and outdoors in winter.

Detectives Find Out About Heat VT#79A

Basic principles of heat.

Changes All Around Us VT#211B

Conduct experiments and find important temperatures.

MAGIC OF AIR VT#220A

Program discusses simple experiments on the water cycle, on making our own weather and on air.

Party Time VT#220B

Arrives at some conclusions regarding our weather chart, our sun shadows and shorter days and add to our knowledge of winter birds.

Our Toys VT#83A

Mr. Thermometer and Susie experiment to find out how toys work. They discover that some toys are really machines.

Wondering About Sound VT#226B

Seeing-eyes, listening ears, finding out by experiment are emphasized as we keep track of April weather, temperatures, wind, record spring "firsts"; observe clouds and do simple experiments with sound.

New Life VT#21

Experiments are conducted to find out what seeds require in order to germinate, what plants require in order to grow stronger and how plants get their food. General facts about new animals are noted.

SOCIAL SCIENCE

CRITTERS (11 min.)

Children are introduced to a wide ranging number of critters.

1. Pigs AT#1305
2. Dogs AT#1307
3. Seagulls AT#1308
4. Horses AT#1309
5. Whales AT#1310
6. People AT#1311

DISCOVERING OUR ENVIRONMENT (12 min.)

To help us understand our relationships to both man-made and natural environments, so we can discover alternatives to present practices which are hazardous to our environment.

1. One Fine Day in the Country AT#705

   Garry the gopher learns what environment is.

2. Ourselves- The Inner Environment AT#706

   The five senses that help us relate to environment.

3. Into the Outer Environment AT#708

   Garry begins to discover his new "outer" environment.

4. Out of the Garden and Into the City AT#709

   Garry learns the difference between natural and man-made environments.

5. Into the Country AT#710

   Garry studies a book on conservation and is worried about the survival of certain animals.

6. Habitat AT#712

   Garry learns about the natural environment and how it is always changing.

7. Energy, Natural Resources, Pollution AT#723

   Garry learns about "industrialization" and how an increasing demand for man-made things put pressures on natural resources and creates problems.

8. People - The Social Environment AT#725

   The individual and society and how each relates to one another through communication.

9. Communication and Technology AT#726

   Garry discovers that even art can be a means of communication.

10. Recycling the World AT#727

    Garry learns that by taking a step at a time, we can discover ways to re-constitute the environment.

SOCIAL STUDIES

LET'S GO FIND OUT (20 min.)

Series is designed to complement the social studies program at the primary level.

About the Fire Department VT#283B

Through seeing "inside" a sophisticated and a not-so-sophisticated fire hall by watching firemen in training and action, children are given the opportunity to appreciate this area of community assistance.

About the Post Office VT#283A

This program takes children inside a large city post office, as well as for brief glimpses into post offices in small towns, villages and rural areas.

About Dogs VT#284

Though the program offers glimpses into some areas of dog training for specific duties, the chief purpose of the program is to further strengthen a child's joy and wonder in experiencing the relationship which should be an integral part of owning, caring for and just "loving" a dog.

About Farms VT#572A

A program in which viewers make initial acquaintance with a grain farm, a beef herd, dairy cattle and egg production. Specific features of each industry are pointed out, and children are encouraged to realize the dependence which everyone has on the farm and the farmer. A folk-singer guitarist, and a city child visitor to the farm add to the program enjoyment.

AUDIO AND VIDEO TAPES

(AT) (VT)

AGES 9 - 12

INTER-DISCIPLINARY

IT'S FUN TO DRAW (26:25 min.)

Canoes AT#1875

Growing Things AT#2386

Magic of Winter AT#2454

Sounds in the Night AT#2144

LET'S WRITE

Fire (13:28 min.) AT#1764

Ice (7:42 min.) AT#1774

Seeds (9:01 min.) AT#2207B

Stormy Weather (11:06 min.) AT#2309

Waves (9:37 min.) AT#2187

TATTLE TRAIL (15 min.)

Encourages teachers to take advantage of beyond-the-classroom activities in the areas of nature study, science, art, language, social studies and the communications arts.

Autumn I AT#259

Autumn II AT#260

Students investigate how plants and creatures of the animal, bird and insect worlds prepare for the coming of a western Canadian winter.

Autumn III AT#261

Using the senses to give clues to information and activities of the natural world.

TATTLE TRAIL (Cont'd)

Winter I AT#262

Observations of nature during the winter season are collected and recorded.

Winter II AT#263

Observations of snowflakes and of differences between wet and dry snow; nature's use of snow as compared to man's use of snow; study of tracks in the snow; snow ecology.

Winter III AT#264

Study of animals and birds on the winter landscape in Manitoba; means of survival over long periods of cold weather and man's part in assisting creatures in the process of survival.

Spring I AT#310

A look at spring time occurrences--new growth of plants, insects, birds and animal activities.

Spring II AT#311

Study of planting; transplanting; relationships of soil and plants in a nature trail setting and unique features of plants and animals.

Spring III AT#313

Emphasis is on the relationships between man and nature, man's role in the preservation and conservation of plant and animal life and on the importance of each person's seeing the world around him as a tantalizing storehouse to be explored for exciting and useful information.

SCIENCE

SCIENCE, SIMPLY (15 min.)

Simple everyday events are explained scientifically in a series of four 15-minute programs, based on the textbook "Concepts in Science". Each program will show easy-to-follow, do-it-yourself experiments.

1. Sound VT#130

This program explores the world of sound; how sounds are produced and how they travel to reach our ears.

2. Light VT#133

This program looks into light and its unique properties and behaviours.

3. Water VT#140

This program investigates water; what it is, where it comes from, and where it "disappears" to.

4. Air VT#143

This program is a study of air and the molecules of which it consists.

HEAT (15 min.)

1. What Is Heat? AT#1895

Earliest ideas and discoveries about heat and fire.

2. Measuring Temperature AT#1905

Effects of heat on gases, liquids and solids. Reasons for expansion and contraction of substances.

3. How Much Heat? AT#1915

Movement of heat from one object to another, from solid to liquid. The calorie as a unit of heat.

4. Sources of Heat AT#1925

Discussions of heat sources - wood, coal, oil, gas. The sun as the original source of heat and energy and its energy stored in plants and by-products of plant life.

5. Making Fire AT#1935

A dramatized story of attempts to make fire.

FOCUS ON WILDLIFE (30 min.)

This series is designed to acquaint students with different wildlife habitats and with many of the interesting forms of life in each.

1. Prairie Spring VT#407

This program depicts the prairie scene as the spring season arrives.

2. I Know a Pond VT#410

This program deals with the many interesting forms of life which are to be found in a pond and around its margins.

3. Patterns for Survival: Colour VT#415

Animal colors have many different purposes.

4. Webbed Feet and Flashing Wings VT#303

The program deals with the many species of geese which abound in Canada and with the whistling, black and white colors.

5. Look to the Mountains VT#280A

The mountain regions provide habitat for many fascinating birds, mammals and plants.

6. Expedition Bathurst Island VT#280B

This program is the record of an expedition to Bathurst Island.

7. Arctic Tundra VT#281A

Viewers visit the Arctic Coast in the vicinity of the Anderson River Delta.

NATURE'S WAYS

The series will consider how nature feeds her wild animals and supplies energy power for the perpetuation of life; stresses on wildlife as man invades natural habitats and conservation techniques to avoid hazards.

1. Nature's Ways (15 min.) VT#531A

Exploring the "homes" where each creature belongs and the development of animal and plant communities and their relationships.

2. Home Is the Wild (15 min.) VT#532A

The program looks at stresses upon wild creatures when man alters the nature of things.

3. A World for Tomorrow (15 min.) VT#533A

The program considers various ways in which insects and fungi have been controlled in Alberta and British Columbia, discusses the problems encountered and the improved techniques developed in the struggle to maintain a balance in nature.

4. Extinction as a Way of Life (30 min.) VT#352

The program considers the effect of extinctions on our geologic past, how the rise and fall of creatures were affected by global changes, and how man has contributed to premature extinctions.

5. Weather (30 min.) VT#383

The program considers global weather patterns and climatic changes. Climatologists discuss the relationship between present patterns and those established during the geologic past, give thought to the climatic "golden age" which occurred at the onset of the agricultural evolution some 8,000 years ago, and explain some of the studies being done today in a search for answers to questions concerning weather changes.

NATURE'S WAYS (Cont'd)

6. Game Ranching (30 min.) VT#384

The concept of game ranching had its beginnings in Africa. In North America, the commercial harvesting of bison, reindeer, caribou and muskoxen has been considered in relation to the needs of native peoples and the demands of a domestic market, but it must be recognized that wild meat production at any commercial level is still in the stages of theory and research. People's attitudes, legislation and different approaches to wildlife management are all factors which will influence the future direction of "game ranching".

POLLUTION (JUNIOR NATURAL SCIENCE) (10 min.)

This series surveys pollution - its causes and its effects and emphasizes the responsibility of mankind for the welfare of all living things.

1. Introducing Pollution VT#505B

The program discusses the balance of nature and pollution in general.

2. Air Pollution VT#506B

The program considers the composition of "normal" air and discusses automobile exhaust, greenhouse effects and temperature inversion.

3. Water Pollution VT#507B

Some aspects discussed are life giving and recreational aspects of clean water, chemical pollution and super wastes.

4. Land Pollution VT#508B

Discussion centres around man in society, chemicals affecting life today and man's choice in dealing with these effects.

WATER WORLD (30 min.)

1. Sea Otters, Seals and Sea Lions VT#293B

Fur-bearing marine animals are introduced.

2. Tide Pools VT#293A

The exploration of inter-relationships between organisms in a mid-tidal pool.

3. Feeding VT#237B

Eating habits of many species of fish.

WATER WORLD (Cont'd)

4. Care of the Aquarium VT#237A

Temperature control, effects of natural and artificial light, filtration, oxygen carbon dioxide cycle; growth and reproduction; fresh and salt water conditions; feeding habits.

5. Stocking the Aquarium VT#236B

Stocking a classroom aquarium including advice on types, species and conditions.

6. The Public Aquarium VT#236A

A tour of the Vancouver Aquarium including a "behind-the-scenes" view.

SNO' USE (20 min.)

This series looks at all the interesting activities we can enjoy through snow use and all the good things about a winter season.

1. Adapt or...? VT#256A

This program takes a look at how birds, animals and man have adapted to winter and at the ways we are encouraged to enjoy the best of the season and so relieve our cold weather tensions.

2. Tracking Down the Subject VT#255B

Children sketch winter scenery and learn how to make casts of snow tracks.

3. Prove it to Me VT#255A

Interesting facts such as the purity of snow, the amount of water in snow, the temperature of ice and the wind chill factor are discussed. A visit to an ice fishing derby and the making of an ice lens are other attractions of this program.

4. Winter in the Making VT#542A

The narrator demonstrates some of the causes of winter, discusses the variety of forms taken by water vapor and explores differences between hoar frost, rime frost, glaze ice, snowflakes and sleet. The making of an ice tree is demonstrated.

VOICES OF THE WILD (20 min.)

The series employs a dramatics approach to introduce children to birds and animals of Canada. Along with Bobby and Betty and Uncle Jack, listeners travel to interesting parts of the country, where they learn about the different animals and the ecology of the various regions, and gain an understanding of methods of conservation.

VOICES OF THE WILD (Cont'd)

Muskox AT#2206

This program affords an excellent opportunity for the teacher to stress the importance of the Arctic and the potential it possesses for supporting human and animal life.

The Woodcock AT#2211

The emphasis in this program is on the conservation of an interesting and valuable bird that is in danger of extinction.

The Pine Marten AT#2216

This program deals with the pine marten, a species of weasel, and emphasizes the importance of this carnivore in preserving the balance of nature. The Canadian fur industry is also discussed.

Sandhill Crane AT#2221

The program examines the problem of man and wildlife living in harmony, as exemplified by the conflict between the farmer and the crane.

Harp Seal AT#2089

This program discusses the controversial slaughter of harp seals by hunters.

Cicada AT#2084

The life cycle of cicadas is very unusual, in that the larvae may spend many years in the ground feeding on root saps. The adult displays the sucking and piercing mouth parts of a true "bug". An explanation is given for capturing and identifying these insects.

Antelope (Pronghorn) AT#2079

The populating of former wilderness areas does not create biological upset for all animals. The program reveals that antelope numbers, for example, have not been significantly reduced by the settling of the West.

Golden Eagle AT#2074

This broadcast familiarizes the younger pupil with a bird which is being forced into extinction by the incursions of civilization.

Dolphins AT#1969

The astounding adaptation of this former terrestrial creature to an aquatic environment provides an illustration of the fact that certain higher-level animals have found it advantageous to return to the water.

VOICES OF THE WILD (Cont'd)

Massasauga Rattlesnake AT#1964

This program dispels many common misconceptions about serpents' behaviour and emphasizes the importance of snakes in maintaining the balance of nature. Methods of treating snake bites are also given.

Starlings AT#1959

This program illustrates the biological upsets to an animal which is introduced to a new environment. The necessity of understanding natural controls is emphasized.

The Red Fox AT#1954

The purpose of this program is to acquaint pupils with some of the fatal diseases they can contract from animals.

Redwinged Blackbird AT#1828

Modern techniques of controlling these birds are explained on this program.

Field Cricket AT#1823

A member of the order of insects known as "Orthoptera", the cricket has long been associated with legends, fables and superstitions, some of which this broadcast relates.

Moose AT#1818

This program deals with the habitat and habits of the moose, and with controlling the numbers of these animals in order to maintain the balance of nature in the taiga of the northland.

Nesting Boxes AT#1813

This broadcast presents suggestions for the correct way to build nesting boxes and feeders for birds during the winter months.

Trumpeter Swan AT#1808

This broadcast studies a species now nearly extinct because of the conflict between the birds' need for extensive breeding areas and the reduction of these areas by human intrusion.

OUR FIVE SENSES (11:25 min.)

Five Senses on a Hike AT#1810

This program shows how our five senses help us to enjoy the wonders of the world, and also how they help to protect us and keep us safe.

Grandpa's Old Crabapple Tree AT#1815

This program emphasizes the sense of sight, and the making of "memory pictures" by the eye camera.

Touch and Hearing AT#1820

This program stresses the importance of two senses which we often take for granted: touch and hearing.

SOCIAL SCIENCE

ENVIRONMENTS (30 min.) (to be erased March, 1982)

This series describes four kinds of environments and considers them, not only in relation to man's purposes in shaping his world, but also to his contradictory and changing values.

1. Down to Earth (The Natural Environment) VT#577
2. Environments - Part II - All Good Gifts Around Us (The Rural Environment) VT#578
3. Environments - Part III - City! (The Urban Environment) VT#579
4. Environments - Part IV - Going Home (The Recreational Environment) VT#580

ONE CUBIC METRE (15 min.)

This series attempts to visually explore three distinct biological environments by a detailed examination of one cubic metre of each. Program concepts include: sun is a primary energy source, physical and biological are tightly inter-woven, organisms are adapted to specific environments, life forms are classified as producers, consumers and decomposers.

1. Beach Me! VT#531B

The program takes a look at an inter-tidal beach on a rocky shore and explores some of the things that make it tick.

ONE CUBIC METRE (Cont'd)

2. Pond - My Word! VT#532B

The program is a study of the edge of a small pond.

3. Forest Floor VT#533B

SOCIAL STUDIES

CHALLENGE OF THE UNKNOWN (20 min.)

The Challenge of Everest AT#1644

The program shows how the endurance and teamwork of twelve men - under the leadership of John Hunt - made it possible for Edmund Hillary and his Sherpa companion, Tensing, to reach the summit on May 29, 1953.

COMMUNITIES WEST (30 min.)

The purpose of this series is to increase knowledge of and interest in all parts of western Canada.

Carberry, Manitoba VT#260

Gimli, Manitoba VT#274A

Steinbach, Manitoba VT#103

Selkirk, Manitoba VT#238B

Atoms at Whiteshell (Pinawa) VT#122B

Churchill on the Bay VT#429

St. Boniface, Manitoba VT#530

Outpost, Manitoba VT#609

Winnipeg, O Winnipeg VT#101

The telecast will chiefly feature the Winnipeg of today.

"Lakeshore" - Manitoba VT#304

On a little-publicized strip of land abutting a central section of Lake Manitoba shoreline, residents have developed their own colourful ways of adapting to environment. Viewers learn of the early history of the area, of pioneer struggles, of projects, injustries, and of some of the central characters which play on the stage of "Lakeshore" - Manitoba.

GREY OWL (30 min.) (to be erased November, 1981)

A study of the turbulent life and the strange enigmatic personality of the man known as grey owl.

1. Part One VT#573

   Born in Hastings, England, he immigrated to Canada in 1903. In 1925 he married an Indian Woman, Anahareo, who gradually converted him from hunter and trapper to conservationist and protector of animals.

2. Part Two VT#574

   Grey Owl lectured on conservation in Canada and during tours of England. He was honorary ranger in Manitoba's Riding Mountain National Park and in Saskatchewan's Prince Albert National Park, where he spent the final years of his life.

KNOW YOUR PROVINCE (15 min.)

The series aims to acquaint students with features and activities of the province in which we live.

1. One-Room School House VT#474
2. Energy VT#566A
3. Wild Rice VT#567A
4. Commercial Fishing VT#568A
5. The Forest VT#569A
6. International Peace Garden VT#570A

LAY OF THE LAND (30 min.)

The four western provinces, considered as one geological unit, cover more territory than most European countries and have more varied topographical features than almost any other single geographical unit in the world.

1. Entering the Gateway VT#198A

   Deals more specifically with shield, parkland, northern sea, lakes and forest, with limited reference to other features.

2. Waste Lands Or...? VT#198B

   Examines the origins of prairie, marsh and desert, the extent of man-made and natural changes; possible benefits of these geographical features and preservation and conservation plans and projects.

LAY OF THE LAND (Cont'd)

3. The Solid Lands VT#199A

Rivers originating at the Great Divide flow to three oceans, creating the major watershed of the N.A. Continent and developing historical, economic and human patterns.

4. Western Cordillera VT#199B

Stretching from the Rocky Mountain trench to the coastal shelf, the Western Cordillera is the topographical barrier between the continental interior and the Pacific Ocean.

ONE NORTHERN SUMMER (30 min.) (to be erased January, 1982)

Recent developments in the north have brought about a growing interest in Arctic wildlife and in the Eskimos and Indians who have been there since the days of the Roman Empire.

1. One Northern Summer VT#259A

A seal hunt dramatically depicts the harsh reality of the struggle for existence in an unsympathetic Arctic World. Reindeer ranches on the Mackenzie delta and polar bears on their migratory route through Churchill, Manitoba, are also seen.

2. The Seal Islands VT#259B

In the summer, northern Arctic fur seals migrate to the Pribilof Islands.

3. Birds of the Bering Sea VT#260A

Mers, cormorants, swans and Arctic terns consider Bering Sea Islands their own particular paradise.

4. Polar Bear Capital of the World VT#260B

Much publicity has been given to the Polar Bears that, during their migratory period, prowl the streets of Churchill, Manitoba - part of the bears' ancient range and migratory route.

5. The Great Reindeer Project VT#261A

Impressed by the Alaskans' success in importing reindeer from Norway, the Canadian government, in the 1930's, arranged to purchase from the Alaskan government, three thousand head of this northern species as food supplies for Eskimos of the Mackenzie area.

ONE NORTHERN SUMMER (Cont'd)

6. Walrus Islands VT#261B

Kodiak, a fishing village on Bristol Bay in the Bering Straits, is famous as the embarkation point for a boat trip to the Walrus Islands, where hundreds of walruses can be seen flopping on the rocks in the summer sun.

REGIONS OF CANADA (30 min.)

A major concept throughout the series is the interaction between man and his environment. Not only does his environment shape man's activities, but man's activities can and do change the nature of his total environment.

1. The Arctic VT#86B
2. The Prairies VT#1
3. The Western Mountain Area VT#42B
4. The Atlantic Region VT#18B

"SNAKE" PREVIEW (10 min.) VT#572B

The program is an authentic presentation of "snakes" as they exist in a part of the Interlake area of Manitoba.

AUDIO AND VIDEO TAPES

(AT) (VT)

AGES 12 - 14

MATHEMATICS

METRIC - THE ELEMENT TRAINER (30 min.) (to be erased February, 1980)

The series identifies changes resulting from Canada's conversion to the metric system and shows how these changes significantly affect the lives of everyone.

The metric system will be demonstrated as a tool which is useful in many of our key problem areas and as a faster and more easily communicable means of understanding such problems. Format of the programs is drama-documentary in which four characters search for answers to certain questions.

1. Seeing Is Believing--Almost! AT#1199

   The program is a discussion about arable land and concentrates on range of lengths, units of area and range of areas.

2. The Problems of Purity AT#1202

   Water pollution, units of volume and range of volume are discussed on this program.

3. How To Corner Space AT#1203

   The program explores issues like space travel, air pollution and the range of masses.

4. Dinosaurs to Apple Dumplings AT#1204

   The disappearance of fossil fuels, the potential of solar energy and restraint in consumption of resources are discussed on the program.

SCIENCE

HEAT (15 min.) (see Science, Ages 9-12, for Program Description)

POLLUTION (30 min.) AT#2544

The standard of living evolved by our western world steadily demands more sophisticated products and services which place a major burden on our environment. This program looks at convenience foods, packaging; non-returnable containers; articles whose manufacture requires more intense methods of mining and production; pesticides and herbicides; air, land and sea transportation. Documentary and definitive in approach, this program will point up problems of, and possible solutions to, a way of life which seems to depend on upsetting the balance of nature.

WATER WORLD (see Science, Ages 9-12, for Program Description)

SOCIAL SCIENCE

RARE AND ENDANGERED ECOSYSTEMS (30 min.)

Because of today's growing concern over stresses placed on the environment and because of ecological repercussions caused when populations of species are reduced to below self-sustaining numbers, this series will have particular relevance, not only in scientific and biological studies, but also in those relative to economic topics.

1. Alpine Areas VT#613

   The program considers the fragility of alpine areas, the plant communities of these regions and the impact of activities which cause stress within regions.

2. Bird Island VT#633

   The program considers the value of islands as breeding and nesting areas for certain species of birds, the resources of certain islands, the vulnerability of such environments and management practices for the protection of nesting birds.

3. Glaciers of the St. Elias Range VT#614

   The program aims to show the fertility and productivity of glaciers and how, in times of great cold, they provided man with a banquet of food on which to feast.

4. Where the Waters Flow (Mineral Hot Springs) VT#616

   The program shows the ecological significance of hot mineral water and brings the values of such areas into focus.

RARE AND ENDANGERED ECOSYSTEMS (Cont'd)

5. Where the Grass Grows (Long Grass Prairie) VT#615

The program shows the breakdown of soils, including the A, B and C horizon grades and variations over specific regions.

SOCIAL STUDIES

GREY OWL (30 min.) (see Social Studies, Ages 9-12, for Program Description)

KNOW YOUR PROVINCE (15 min.) (see Social Studies, Ages 9-12, for Program Description)

ONE NORTHERN SUMMER (30 min.) (see Social Studies, Ages 9-12, for Program Description)

COMMUNITIES WEST (30 min.) (see Social Studies, Ages 9-12, for Program Description)

AUDIO AND VIDEO TAPES

(AT) (VT)

AGES 14+

SCIENCE

SCIENCE TO LIVE WITH (30 min.)

In this series, "science" is regarded as a systematic way of asking and answering questions about nature, man and the relationships between the two.

Food VT#285A

The problem of providing food has resulted in many scientific discoveries.

Materials VT#287B

Conservation techniques and new discoveries for preserving forests.

Power VT#286A

Technology of power generation.

The Sea VT#286B

Exploration into the resources of the sea and the ways which man exploits it.

RARE AND ENDANGERED ECOSYSTEMS (see Science, Ages 12-14, for Program Description)

SOCIAL STUDIES

ENERGY (30 min.)

This series investigates "energy" in global rather than in nationalistic terms.

1. The Consumption Assumption VT#458

   This program examines the flow of various kinds of energy in primitive societies, as well as the highly wasteful consumption in the industrial world.

ENERGY (Cont'd)

2. Which Eco Is Loudest VT#459A

It is only within the last two decades that people have caught on to the fact that the resources of this planet are limited. This program examines some of the accepted trade-offs between what is economically desirable and what is ecologically sound.

3. Tilting at Windmills VT#459B

Some new and some old fangled ideas about converting natural forces into usable energy will be examined.

CANADA IN PRINT (27 min.)

Prairie and Mountain AT#2917

Changes from homestead to a family farm to large corporation are represented. An unknown mountain lake gives birth to a hiking trail, then to a commercial development; mountain streams become public resorts; grain elevators give way to high-rises.

The Place AT#2903

Isolation, survival, contentment, geographic variation and challenge are expressed in the Dufferin Letters, provincial anthologies, songs and in contemporary stories and poetry.

Discovery and Breakthrough AT#2908

Early and modern development of Canada is explored through Alexander Mackenzie's journal, railroad histories, bush pilot records and contemporary records of resource and industrial development.

People and More People AT#2913

Canadians are movers, whether loyalist or trailer residents, native pioneers or modern builder, homesteader or jet-setter.

Canadian Highlights AT#2920

Special events across Canada bring people together in a spirit of celebration, camaradie or purpose. From earliest times, memories of special days have been preserved to record the flavor and excitement that have been Canada.

AUDIO AND VIDEO TAPES

(AT) (VT)

GENERAL

HAPPINESS IS WINTER (10 min.) VT#542B

Glimpses of winter's beauty in swirl and drift and snow-laden trees, interspersed with the good spirit of winter activities - all portrayed over a background of suitable seasonal music.

ONE NORTHERN SUMMER (30 min.) (see Social Studies, Ages 9-12, for Program Description)

ASSINIBOINE PARK ZOO (20 min.)

The modern zoo is examined as both a place for entertainment and a centre for research and learning about ecology and conservation.

1. We're at Home! VT#470A

   Canadian animals.

2. We're from Afar! VT#470B

   Exotic animals.

2. DEPARTMENT OF EDUCATION

d) SCHOOL FILM SERVICES

Films are available on loan from:

School Film Services
Manitoba Department of Education
214A - 1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Telephone: 786-0222

School Film Services distributes 16 mm films to all Manitoba schools, educational associations and other government departments. All films are available free of charge, with postage paid both ways.

All films should be previewed before showing, so that suitable comments and clarification may be made as deemed necessary.

Films

About Flowers (10 min.; colour) (Elem.)

A nature lesson, taught in a field of flowers, in a way to please and interest even the youngest audience.

About Rivers (11 min.; colour) (Elem. - Jr. High)

Recreational and commercial uses of major rivers in the world.

Above the Horizon (21 min.; colour) (General)

An exciting exploration of weather and how man may one day learn to control it.

Above the Timberline (16 min.; colour) (Int. - Jr. High)

An account of the vegetation and animal life in this specialized environment. Depicts the beauty and contrasts of the high peaks.

Accessible Arctic (23:32 min.; colour) (Elem. - Sr. High)

Describes the growing advance of industry and settlement in Northern Canada.

Adventures (10 min.; colour) (Elem. - Int.)

A little raccoon who encounters many adventures when he strays from home to explore the world around, is depicted.

Adventures of a Baby Fox (13 min.; B & W) (Elem. - Int.)

Baby fox explores the forest for the first time.

Aging of Lakes (14 min.; colour) (Jr. High - Sr. High)

The film discusses normal aging of lakes and how man is speeding up this natural process.

Air and What it Does (11 min.; colour) (Elem.)

Children learn how air moves.

Air in Motion (10 min.; B & W) (Elem. - Int.)

Experiments illustrating Bernoulli's principle.

Air Pressure (10 min.; B & W) (Elem. - Int.)

Facts about the pressure of air that is all around us.

American Wilderness (53 min.; colour) (Sr. High)

Stresses the preservation of wild areas despite the pressures of the technological society.

Amphibians (11 min.; colour) (Int. - Sr. High)

Shows similarities and differences among amphibians, their development and metamorphosis. Follows the life cycle of a frog.

Animal Friends (11 min.; B & W) (Elem.)

Live exhibits come from Stanley Park Zoo to an elementary school.

Animal Homes (10 min.; B & W) (Elem.)

Shows the common and uncommon homes of many animals.

Animal Movie (9 min.; colour) (Elem.)

An animated cartoon to help children explore why and how animals move as they do.

Animal Town of the Prairie - Prairie Dogs and Their Neighbours (10 min.; colour) (Int. - Jr. High)

Explains prairie dogs social structure and home environment.

Animals at Work in Nature (10 min.; colour) (Elem. - Int.)

Unusual photography depicts the concept that nature has equipped animals with special adaptions which enable them to do their work.

Animals in Winter (10 min.; B & W) (Elem. - Jr. High)

Preparation for winter of some common animals. Also, sequence of spring emergence of Cecropea Moth.

Ant World (15 min.; colour) (Elem. - Sr. High)

Documents the life cycle and lifestyle of ants whose social practices often parallel man's.

Anthropods; Insects and Their Relatives (10 min.; colour) (Jr. High - Sr. High)

Shows the physical characteristics and environment of four classifications of anthropods.

Archery Fundamentals (11 min.; colour) (Jr. High - Adults)

This film explains the parts, functions, measurements and strength of archery equipment.

Assiniboine Park Zoo Series

1. We're at Home (15 min.; colour) (General)

   Looks at some of the mammals and birds that are native to western Canada.

2. We're from Afar (15 min.; colour) (General)

   Exotic mammals and birds are the subject of this program.

Atonement (Parts 1 and 2) (50 min.; colour) (General)

This film shows efforts now being made by wildlife specialists to preserve and nurture the creatures that do remain in our wilderness area.

As Tall as the Mountains (30 min.; colour) (Jr. High - College)

Battle of the Bugs (10 min.; colour) (Int. - Sr. High)

Life-cycle sequences and "natural enemies" of some insects.

Beach - A River of Sand (20 min.; colour) (Int. - Sr. High)

An analysis of currents produced by waves proves that most of the pronounced net movement of sand is usually along the shore.

The Beaver (20 min.; colour) (Elem. - Int.)

Physical characteristics and home construction.

Beaver Dam (15 min.; colour) (Elem. - Jr. High)

Describes the beaver's characteristic habits and how they sometimes run counter to the plans of people.

Beaver Makes a Comeback (20 min.; colour) (Int. - Sr. High)

Conservation and trapping of the beaver.

Be Water Wise (20 min.; colour) (Elem. - Adult)

Basic principles of water safety.

Bicycle Safety - Defensive Cycling (15 min.; colour) (Elem. - Jr. High)

Stresses hand signals, traffic signals and correct intersection procedures.

Bicycle Today - Automobile Tomorrow (10 min.; colour) (Elem. - Int.)

This film prepares the young bike riders for their role of tomorrow's motorists by instilling in them the necessary driver responsibility and respect for traffic laws and regulations.

Bicycling on the Safe Side (16 min.; colour) (Jr. High - Adult)

This film gives a fresh approach to safe and efficient bicycling for those who cycle for recreation and transportation.

Biology, High School (Jr. High - Sr. High)

Unit 1 - Ecology

- Biological Community (11 min.; colour)

- The Cave Community (13 min.; colour)

Unit 1 - Ecology (Cont'd)

- Coniferous Forest Biome (16 min.; colour)
- The Desert (22 min.; colour)
- Distribution of Plants and Animals (16 min.; colour)
- The Grasslands (17 min.; colour)
- The Physical Environment (11 min.; colour)
- Plankton and the Open Sea (19 min.; colour)
- Population Ecology (19 min.; colour)
- The Sea (26 min.; colour)
- Succession - from Sand Dune to Forest (16 min.; colour)
- The Temperate Deciduous Forest (17 min.; colour)
- The Tropical Rain Forest (17 min.; colour)
- What is Ecology? (11 min.; colour)

Unit 2 - Plant Life

- Fungi (16 min.; colour)
- Simple Plants - The Algae (18 min.; colour)
- Gymnosperms (17 min.; colour)
- Angiosperms - The Flowering Plants (21 min.; colour)
- The Growth of Plants (21 min.; colour)
- Seed Germination (15 min.; colour)

Bird Homes (11 min.; colour) (Elem.)

Bird Hunt (10 min.; B & W) (Elem.)

Two young boys experience remorse at killing a bird.

Bird Neighbours (10 min.; colour) (Elem. - Jr. High)

Canadian Birds.

Birds are Interesting (10 min.; colour) (Elem. - Sr. High)

Classification as to physical characteristics and habitats.

Birds of Canada No. 6 (8:52 min.; colour) (Elem. - Jr. High)

The pileated woodpecker, the yellow-bellied sapsucker and the common loon are objects of study in this film.

Birds of Our Storybooks (10 min.; colour) (Elem.)

The birds with which children encounter most frequently in their stories and texts.

Birds of the Seashore (10 min.; colour) (Int. - Jr. High)

Birds of Canada's east coast

Boat Trip (12 min.; colour) (Elem. - Int.)

An eight year old girl and a sea captain deliver a new boat to a distant harbour. Provides a basic foundation for the study of water transportation.

Boating and Good Sense (20 min.; colour) (Jr. High - Adult)

Emphasizes proper equipment, knowledge of basic navigation rules, care and caution when towing water skiers, courtesy and common sense when approaching small boats and canoes.

Boy's Journey Through a Day (16:30 min.; colour) (Elem. - Int.)

A visual adventure without narration of a young boy's explorations and discoveries in nature.

Brown Bear Goes Fishing (10 min.; colour) (Elem.)

Unusual and interesting scenes of brown bears in Alaska.

Buffalo: An Ecological Success Story (14 min.; colour) (Jr. High - Sr. High)

Documents the life story of the buffalo and the tremendous effort that has been made to preserve and extend this almost extinct species.

By Map and Compass (26 min.; colour) (General)

A basic map and compass training film.

By the Sea (14 min.; colour) (Jr. High - Sr. High)

Presents a variety of visual impressions of the seashore - people by the sea, changing moods of the sea and plants and animal forms found beneath the surface and along the shoreline. Can be useful to motivate creative expression and for the study of film as an art form.

Caribou of Northern Canada (13 min.; colour) (Int. - Sr. High)

Study of the Barren Ground Caribou of Canada's northern tundra region, describing their activities in the different seasons.

Carpenters of the Forest (20 min.; B & W) (Elem. - Jr. High)

Activities of the woodpecker and other birds.

Changing Forest (20 min.; colour) (Jr. High - Sr. High)

Shows the ecology of a deciduous forest area.

Choosing a Leader (8 min.; colour) (Jr. High - Sr. High)

The story of a group of boys and girls hiking in the woods and facing the possibility of becoming lost before dark, present the problem of choosing a leader.

Climate and Seasons (10 min.; colour) (Elem. - Jr. High)

Variations in the four seasons due to climate are explored.

Cold (11 min.; colour) (Int. - Jr. High)

Experiments with cold.

Conservation and Balance in Nature (18 min.; colour) (Sr. High)

The role of man in changing the existing balance in biological communities is examined critically.

Cross-Country Skiing (7 min.; colour) (Jr. High - Sr. High)

Shows how four experts ski over white fields and forest trails.

Cross-Country Ski Technique (30 min.; colour) (Jr. High - Sr. High)

Discusses aspects related to fundamental cross-country skiing and equipment.

Crowded Wilderness (9 min.; colour) (General)

The problems and the need to act now are well defined in this film by concerned conservationists.

The Dairy Farm (15 min.; colour) (Elem. - Int.)

The active routine of life on a dairy farm.

Dairy Farm Today (10 min.; colour) (Elem. - Int.)

Study of a modern dairy.

DDT - Knowing it Survives Us (30 min.; colour) (Jr. High - Sr. High)

This film assesses the status of DDT today and explains how it has become a symbol of both man's genius and his mindlessness.

Death of a Legend (50:27 min.; colour) (Jr. High - Sr. High)

Describes the wolf's life cycle, the social organization of the pack and the importance of the wolf in helping to maintain the balance of nature.

Deer and the Forest (16 min.; colour) (Int. - Adult)

A "life ballet" of deer and other animals moving through a year's cycle in this film story without words.

Describing What We See (12 min.; colour) (Int. - Adult)

The film utilizes the sights and sounds of the world around us to give the student help in describing what he sees and hears.

The Desert (10 min.; colour) (Jr. High - Sr. High)

Portrays the North American desert as a region of little rain and includes the role of the mountains in capturing moisture from the air blowing in from the sea.

Dress for Health (10 min.; colour) (Elem.)

Shows proper clothing and dressing according to the weather reports.

Earth in Motion (15 min.; B & W) (Elem.)

Earth and Mankind Series (General)

- Can the Earth Provide (28 min.; B & W)

- Man and the Resources (28 min.; B & W)

- People by the Billions (28 min.; B & W)

Earth in Change: The Earth's Crust (20 min.; colour) (Int. - Sr. High)

Land features and the natural processes of erosion, folding, sedimentation, volcanic action and earthquakes.

The Earth: Its Structure (10:30 min.; colour) (Elem.)

Examines the structure of the surface and interior of the earth.

Earth's Movements (10:30 min.; colour) (Int. - Jr. High)

Shows the four movements of the earth and explains how they account for day and night, time differences and the changing seasons.

The Earthworm (10 min.; colour) (Elem. - Jr. High)

Earthworms at work.

Edge of the Barrens (20 min.; colour) (Elem. - Sr. High)

Excellent ecological study of the Canadian Sub-Arctic.

Egg Becomes a Chicken (11 min.; colour) (Elem. - Int.)

A teacher and two students share questions and information about chicken eggs from fertilization to hatching.

The Enduring Wilderness (27:48 min.; colour) (Jr. High - Sr. High)

A tour of Canada's national parks from British Columbia to Newfoundland. Includes the farsightedness of men of the past century who set aside these territories for the enjoyment of future generations.

Energy and Its Forms (10 min.; colour) (Int. - Jr. High)

This film explains the basic concept of energy and shows examples of its principle forms, including nuclear energy.

Energy and Work (10 min.; colour) (Int.)

Energy from the Sun (10 min.; B & W) (Jr. High - Sr. High)

Energy Dilemma (20 min.; colour) (Jr. High - College)

Deals with a tremendous increase in waste in our consumption of energy, with alternate energies and with the problem of the absolute limit of our energy resources.

Erosion - Levelling the Land (14 min.; colour) (Int. - Sr. High)

Examines the surface processes of weathering, erosion and deposition.

The Everglades (Part I and II) (41 min.; colour) (Int. - Sr. High)

Description of the Everglades and the importance of preservation and ecology to it.

Farm Animals (10 min.; colour) (Elem. - Int.)

Farm Activities. Correlates well with Language Arts and Science.

Farm Animals in Rhyme (11 min.; colour) (Elem.)

Whimsical rhymes describe a trip around a farm.

The Farmer (20 min.; colour) (Elem.)

This film dramatizes the daily activities of a teenager and his younger brother and sister living on a farm.

Finding Out About Rocks (20 min.; colour) (Elem. - Int.)

Provides young pupils with a simple introduction to the study of earth materials and their importance.

First Aid on the Spot (10 min.; B & W) (Jr. High - Sr. High)

Demonstrates first aid treatment as set forth in the revised edition of the "American Red Cross First Aid Textbook".

5,000 Miles (20 min.; colour) (General)

A film to tempt everyone to travel farther along the Trans-Canada Highway.

Flight in White (14 min.; colour) (General)

Nothing a man does on his own brings him closer to flight than skiing, a sport for which Canada provides the ultimate facilities.

Flowers at Work (10 min.; colour) (Int. - Jr. High)

Shows by animation, time-lapse and close-up photography, the process of cross-pollination, self-pollination and fertilization.

The Forest Tent Caterpillar (16:43 min.; colour) (Int. - Jr. High)

Illustrates the life cycle of the forest tent caterpillar and shows the damage it causes annually to deciduous forests.

Forests for the Future (30 min.; colour) (Int. - Sr. High)

Excellent study of forest conservation.

Forest Watchers (25 min.; colour) (General)

The use of remote sensing techniques to take inventory of Canada s forest resources and to warn of insect disease and fire damage, particularly in areas not easily accessible.

Fossils: From Site to Museum (11 min.; colour) (Int. - Sr. High)

Describes how fossils are formed and how they are prepared for study and exhibit.

Freshwater World (24 min.; colour) (General)

A film of discovery: the vulnerability of our freshwater world, the damage we have already done to it and the ways we can help restore and protect it.

The Frog (10 min.; B & W) (Int. - College)

The environment and life cycle of a frog.

Fun on the Wild River (10 min.; colour) (Elem. - Jr. High)

A family's hazardous river passage with its dangers and upsets and the experience of climbing steep rock cliffs to capture and band a young eagle.

Fur Trapper of the North (10 min.; colour) (Int. - Jr. High)

Portrays the rugged life of a fur trapper in the northern wilds.

Gardens for Everyone (11 min.; colour) (Elem.)

Designed to motivate young people to react to the beauty of their environment through appreciation and creative expression.

Garrett Hardin: Interview (26 min.; colour) (Sr. High)

Garrett Hardin confronts the social and ethical issues raised by our ever-increasing knowledge of population biology, technical manipulation of natural systems and the mechanics of evolution.

Geography of Your Community (10 min.; colour) (Int. - Jr. High)

Encourages children to collect and organize data about their own community.

Ghosts of a River (20 min.; colour) (Elem. - Sr. High)

This film preserves a picture of the Columbia - wild, untamed, coursing through an impressively beautiful mountain region, sparsely populated, but replete with history.

Gift of Green (20 min.; colour) (Jr. High - Sr. High)

Excellent animation makes process of photosynthesis clear.

Glaciation (20 min.; colour) (Jr. High - Sr. High)

Explains how glaciers are formed, how they move and how they wear away the land.

Glacier on the Move (11 min.; colour) (Jr. High - College)

The film shows the rhythm of glacial movement in summer and in winter.

Golden Eagle: No Natural Enemy (22 min.; colour) (Int. - Sr. High)

The golden eagle's only enemy is man.

Great American Goose Egg (10 min.; colour) (Int. - Adult)

A satire on technology and industry in which the goose egg is symbolic of our natural resources. The forward march of civilization trods over a nature which struggles to survive.

Great Barrier Reef (Part 1 and II) (49 min.; colour) (Jr. High - Sr. High)

A unique ecosystem off the coast of Australia is in danger.

The Green City (23 min.; colour) (Jr. High - Sr. High)

The preservation of green space and open space in urban areas is particularly challenging because of the intense economic pressures involved. Examples of successful urban green space preservation can inspire local action.

Grizzly (Part I and II) (52 min.; colour) (Elem. - Jr. High)

Two scientists follow bears to their winter dens and find out how long they live, how much land they need, their weight, pulse and blood chemistry and analyze the sow's milk.

High Arctic - Life on the Land (21 min.; colour) (Elem. - Sr. High)

An ecological study in full color, of plant and animal life on the Queen Elizabeth Islands in the Canadian Arctic and of the life cycles that are the law of nature even in these frozen wastelands.

Hot and Cold (10 min.; colour) (Elem.)

Everyday expressions of hot, cold, warm, cool, red-hot or ice-cold are humorously considered.

How Animals Help Us (20 min.; colour) (Int. - Jr. High)

Explains and shows the many services and products that we derive from animals.

How Birds Help Us (10:30 min.; colour) (Elem. - Int.)

Jack observes that birds help us by providing us with food, destroying harmful insects and rodents, eating weed seeds, and giving us pleasure with their bright colours and songs.

How Nature Protects Animals (11 min.; colour) (Int. - Jr. High)

Shows the protective adaptation of animals in different environments.

How Plants Reproduce (10 min.; colour) (Int. - Jr. High)

Simple explanation of the function and parts of the flower, fruit and seed.

How to Build an Igloo (10 min.; colour) (General)

A demonstration of igloo building in Canada's far north.

Ice (10 min.; B & W) (Elem. - Jr. High)

How ice is produced.

Importance of Rivers (10 min.; colour) (Int. - Sr. High)

Covers aspects such as water supply, transport artery, wearing down and building up of land, drainage, irrigation, hydro-electric power, recreation and influence on climate.

In One Day (20 min.; colour) (Jr. High - Sr. High)

Science of weather forecasting and equipment used.

Insect Collecting (14 min.; colour) (Elem. - Sr. High)

Shows the most common and successful methods of collecting a variety of insects.

Insect Foods (20 min.; colour) (Int. - Jr. High)

Insects (10 min.; colour) (Int. - Sr. High)

Identifies principle characteristics.

Introducing Insects: Butterflies, Beetles and Bugs (16 min.; colour) (General)

Island of Dreams (10 min.; colour) (Elem. - Adult)

No narration. Describes what happens when a factory worker leaves the crowds, pollution and mechanized monotony of the city life.

Jacky Visits the Zoo (11:15 min.; colour) (Elem.)

A tour of the zoo with close-ups of the polar bear, lion, giraffe, elephant, rhinoceros, camel and zebra.

The Joy of Winter (14:54 min.; B & W) (Elem. - Sr. High)

Illustrates winter activities for people of all ages.

Just Beyond the Chalkboard (30 min.; colour) (General)

Lakes - Aging and Pollution (15 min.; colour) (Jr. High - Sr. High)

Shows the aging process of the lake and how man's activities can speed the aging.

Learn to Ski (14 min.; B & W) (Jr. High - Sr. High)

This film shows techniques as recommended by the Canadian Ski Instructors Alliance and the Canadian Amateur Ski Association.

Learning About Flowers (10 min.; colour) (Elem.)

Portrays the story that there are many different kinds of flowering plants.

Learning About Seeds (20 min.; colour) (Elem.)

Explains that there are many different kinds of seed-bearing plants and that seeds have many sizes, shapes and colours.

Learning to Swim (10 min.; B & W) (Elem. - Sr. High)

The six fundamental steps of the Australian Crawl.

Learning with your Senses (9 min.; colour) (Elem.)

Describes how each of our senses gives us a different kind of information and how they can all be used together to bring us more knowledge and appreciation of the world around us.

Let's Look at Weeds (19 min.; colour) (Jr. High - Sr. High)

Detailed study of the ecological relationship between weeds and crop plants.

Life Cycle of a Plant (10 min.; B & W) (Jr. High - Sr. High)

Life in a Cubic Foot of Air (10 min.; colour) (Int. - Sr. High)

Explores life through molds, microscopic plants and animals.

Life in a Pond (10 min.; colour) (Elem. - Sr. High)

Life in the Sea (20 min.; colour) (Int. - Sr. High)

Life in the Woodlot (17 min.; colour) (Int. - Jr. High)

Life on a Dead Tree (11 min.; colour) (Elem.)

Life Story of the Hummingbird (16 min.; colour) (Int.)

The Living Bird (20 min.; colour) (Int. - Jr. High)

Special characteristics of birds.

The Lumberman (20 min.; colour) (Elem. - Sr. High)

Excellent film on lumbering operation.

Mammals and Their Characteristics (10:30 min.; colour) (Int. - Sr. High)

Describes the characteristics and the diversity of mammals.

Man and His Environment I: Rainforest Family (17 min.; colour) (Elem. - Sr. High)

The Choco Indians of Central and South America.

Man and His Environment II: Food from the Rainforest (17 min.; colour) (Elem. - Sr. High)

The Choco Indians - hunting, fishing, gathering and simple agriculture.

Manitoba Series

Know Your Province:

- Forestry (20 min.; colour) (Int. - Jr. High)

- Commercial Fishing (15 min.; colour) (Int. - Jr. High)

Maps Show Our Earth (9:30 min.; colour) (Elem.)

As Doug's father traces the route he is taking on a long trip, Doug discovers how maps picture and give many kinds of information about the earth's surface.

Maps - Where Am I? (2nd Edition) (10 min.; colour) (Int. - Jr. High)

An introductory approach to the understanding of maps.

Matter of Survival, A City's in Crisis (19 min.; colour) (Jr. High - Sr. High)

Contrasts the blatant ugliness of haphazard technological growth with nature's beauty.

Meaning of Conservation (10 min.; colour) (Elem. - Sr. High)

In this film, we see what is being done to maintain our country's resources and natural beauty.

Milk: From Farm to You (3rd Edition) (13 min.; colour) (Elem. - Int.)

The story of milk, from the cow to the carton, is presented.

The Mountains (Revised) (14 min.; colour) (Int. - Sr. High)

Explores the variety of mountain forms and the forces that created them, and shows some of the plant and animals which live in the mountain region.

Mountains on the Move (10 min.; colour) (Jr. High - Sr. High)

This film illustrates how mountains were formed and how glaciation, heat, frost and erosion by water have altered their form over millions of years.

Netsilik Series (All are 30 min.; colour) (Int. - College)

- Autumn River Camp - Part I
- Autumn River Camp - Part II
- Building a Kayak - Part I
- Building a Kayak - Part II
- Caribou Crossing Place - Part I
- Caribou Crossing Place - Part II
- Fishing at the Stone Weir - Part I
- Fishing at the Stone Weir - Part II
- Group Hunting on Spring Ice - Part I
- Group Hunting on Spring Ice - Part II
- Group Hunting on Spring Ice - Part III
- Jigging for Lake Trout
- Stalking Seal on Spring Ice - Part I
- Stalking Seal on Spring Ice - Part II
- Spring Sea Ice Camp - Part I
- Spring Sea Ice Camp - Part II
- Spring Sea Ice Camp - Part III
- Winter Sea Ice Camp - Part I
- Winter Sea Ice Camp - Part II
- Winter Sea Ice Camp - Part III
- Winter Sea Ice Camp - Part IV

New Magic of Swimming (20 min.; B & W) (General)

The film deals with modern trends in swimming techniques in each stroke in turn.

Noise - Polluting the Environment (15 min.; colour) (Sr. High)

Stimulates concern over the problem of noise as an environment pollutant.

North America - Its Coastlines (13 min.; colour) (Int. - Jr. High)

Exploring both coasts of North America from the Arctic Ocean to the Panama Canal reveals a variety of land forms.

North America: Its Plains and Plateaus (16 min.; colour) (Int. - Jr. High)

Shows the urbanization, agriculture and industry in relationship to the historical development and continuing human use.

North America: Its Rivers (14 min.; colour) (Int. - Jr. High)

Surveys nine great rivers of the continent and their contribution to the farming, recreation, transportation and hydro-electric power of the North American people.

North Shore (20 min.; B & W) (Jr. High - Sr. High)

A picture of life on the barren north shore of the St. Lawrence and of the changes taking place in this area as the resources are tapped.

Ocean of Air (20 min.; colour) (Int. - Jr. High)

An introductory study of air for the young learner.

Ocean Tides (Bay of Fundy) (14 min.; colour) (Int. - Sr. High)

Explains by animation how tides are caused and pictures the unusual tides in and near the Bay of Fundy.

Octopus Hunt (17 min.; colour) (General)

The film is about a zoological expedition to capture octopus and wolf eel specimens for the Vancouver Aquarium.

One Man's Garden (21 min.; colour) (General)

A tongue-in-cheek film, a mixture of documentary and dramatic effect on the subject of garbage.

On the Way to School (10 min.; B & W) (Elem. - Int.)

The film creates interest in expression and activities concerning everyday experiences.

Orienteering (10 min.; colour) (General)

Basics of map and compass skills.

Origins of Weather (20 min.; colour) (Int. - Sr. High)

Illustrates, from the vantage of off-the-earth observation, the factors that produce the climate we know.

Our Crowded Environment (11 min.; colour) (Int. - Adult)

Presents the concept of population explosion.

Our Earth (12 min.; colour) (Elem.)

What the surface of earth is made of.

Outdoor Education: Basic Rock Climbing (14 min.; colour) (Elem. - Sr. High)

An experienced rock climber instructs a novice in the basic principles of rock climbing.

Outdoor Education: Firebuilding and Cooking (17 min.; colour) (Elem. - Sr. High)

Proper techniques of building a fire for the purpose of outdoor cooking.

Outdoor Education: Shelter Building - Canoe and Plastic Tarp (7 min.; colour) (Elem. - Sr. High)

This film shows how to construct a two man shelter in the wilderness, by utilizing a canoe and a plastic tarp.

Outdoor Education: Shelter Building - Plastic Tarp (10 min.; colour) (Elem. - Sr. High)

This film illustrates methods of constructing a wilderness shelter, using a plastic tarp and two standing trees.

Outdoor Recreation: Artificial Respiration (8 min.; colour) (Elem. - Sr. High)

Two of the best methods of artificial respiration are shown in close-up detail.

Outdoor Recreation: Bush First Aid Part I (10 min.; colour) (Elem. - Sr. High)

Outdoor Recreation: Bush First Aid Part II (10 min.; colour) (Elem. - Sr. High)

Outdoor Recreation Distress Signals Part I (8 min.; colour) (Elem. - Sr. High)

This film shows that all that is needed to ensure that one will almost certainly be rescued if lost in the wilderness is a hatchet and a means of lighting a fire. The knowledge gained from this film will provide confidence and help eliminate panic if one is ever faced with this situation.

Outdoor Recreation Distress Signals Part II (10 min.; colour) (Elem. - Sr. High)

More sophisticated forms of international distress signals are shown, that include telling rescuers what the situation is regarding numbers of people and the extent of any injury. Spectacular aerial shots show the effectiveness of well-made distress signals.

Outdoor Recreation: Dressing Fish (11 min.; colour) (Elem. - Sr. High)

Done in extreme close-up and logical step-by-step progression, the film describes the process of dressing fish in such detail that most viewers will be able to do it easily, either at home or while on a camping trip.

Outdoor Recreation: Drownproofing (8 min.; colour) (Elem. - Sr. High)

This film shows how to stay afloat and travel in water, even if you have never learned to swim.

Outdoor Recreation: Edible Plants in Summer (11 min.; colour) (Elem. - Sr. High)

There are very few poisonous plants and the viewer will be surprised at the great abundance of palatable food that is available in the wilderness areas of North America.

Outdoor Recreation: Emergency Compasses (12 min.; colour) (Elem. - Sr. High)

Finding directions in daylight or darkness.

Outdoor Recreation: Frostbite and Snowblindness (11 min.; colour) (Elem. - Sr. High)

Two of winter's most painful conditions are discussed in detail in a film that covers prevention, recognition, causes and treatment of both these dangerous ailments.

Outdoor Recreation: Firemaking and Shelters (11 min.; colour) (Elem. - Sr. High)

Includes how to choose a site for your fire and shelter, how to select timber and how to light a fire.

Outdoor Recreation: Fundamental Canoeing (11 min.; colour) (Elem. - Sr. High)

The fundamentals of safe canoeing - how to launch, load and portage are mentioned.

Outdoor Recreation: Outdoor Cooking (10 min.; colour) (Elem. - Sr. High)

Preparing a "kitchen area" in a winter wilderness camp.

Outdoor Recreation: Shelter Construction in Winter (13 min.; colour) (Elem. - Sr. High)

Whether one is camping out overnight or just needing a place to rest from the wind and snow, comfortable shelters can be constructed easily, even during winter's icy blasts. This location film shows some of the methods used to build comfortable shelters.

Outdoor Recreation: Snowshoeing (12 min.; colour) (Elem. - Sr. High)

Demonstrates how to use the snowshoe.

Outdoor Recreation: Summer Bush Clothing (9 min.; colour) (Elem. - Sr. High)

Two boys head off on a fishing trip, one wearing correct clothing and the other, ordinary light summer-weight slacks and shirt. As the film progresses, the viewer sees that proper clothing is essential to one's comfort and well-being when camping out.

Outdoor Recreation: Survival Kit Part I (9 min.; colour) (Elem. - Sr. High)

This film shows the numerous items in the survival kit and how they are designed to combat the seven enemies of survival.

Outdoor Recreation: Survival Kit Part II (10 min.; colour) (Elem. - Sr. High)

This film takes an actual survival situation and shows how two girls are actually able to use the survival kit.

Outdoor Recreation: Using a Compass (11 min.; colour) (Elem. - Sr. High)

This film covers the primary considerations in selecting a compass and explains its main features. It shows how to use a compass and map together and the correct way to follow a bearing, even if detours are necessary. Estimating distance and "tally and pace" system are also covered.

Paddle and Portage (13 min.; colour) (Elem. - Sr. High)

The different techniques in the art of canoeing.

Paddle to the Sea (30 min.; colour) (Elem.)

The journey of a hard-carved toy canoeman from Canada's northern forest downstream to the distant sea.

Paradise Lost (4 min.; colour) (Elem. - Sr. High)

A plea without words, for the right of all creatures to a clean, unpolluted environment.

Partnership Among Plants and Animals (10 min.; colour) (Elem. - Int.)

Three types of relationships are observed, those between plants, those between animals and those between plants and animals.

People of the Seal (General)

- Part I - Eskimo Summer - Parts I and II (51 min.; colour)

- Part II - Eskimo Winter - Parts I and II (51 min.; colour)

Two films compiled from some of the most vivid actuality footage ever filmed of the life of the Netsilik Eskimos in the Pelly Bay region of the Canadian Arctic.

Photosynthesis (20 min.; B & W) (Jr. High - Sr. High)

Using the cabbage as an example, and with supporting animated diagrams, the process of photosynthesis is clearly explained.

Plant Motions - Roots, Stems and Leaves (10 min.; colour) (Int. - Sr. High)

Uses time-lapse photography to reveal the phenomenon of "circumnutation", which is the tendency of growing roots, stems and leaves to describe irregular circles or ellipses.

Plant Traps (10 min.; B & W) (Jr. High - College)

Carnivorous plants.

Plants are Different and Alike (11 min.; colour) (Elem.)

In a nursery, to buy garden seeds, Karen and Larry learn of the similarities and differences that plants have.

Plants Make Food (11 min.; colour) (Elem. - Jr. High)

Two children discover how plants make food.

Plea for the Wanderer (19 min.; colour) (General)

Follows the arduous life cycles of the east and west coast salmon, revealing both the perils of nature and threats imposed by man.

Point Pelee Nature Sanctuary (10 min.; colour) (Elem. - Jr. High)

Film shows many aspects of this seven-mile strip of forested land, projecting into Lake Erie.

Pollution is a Matter of Choice (53 min.; colour) (Elem. - Int.)

An examination of the environmental dilemma of modern man.

Pollution - Land, Air, Water, Noise (17 min.; colour) (Jr. High - Sr. High)

An examination of the environment and how the natural environment is being replaced by an artificial man-made environment.

The Pond (20 min.; colour) (Sr. High)

In the pond, a community of living things is examined, each dependent, one on the other.

Prairie Provinces, Canada (20 min.; colour) (Int. - Sr. High)

A look at the prairie provinces' wheat farming, cattle raising, lumbering, mining and new industries.

Problems of Conservation - Air (15 min.; colour) (Jr. High - Sr. High)

This film explains what has caused man-made pollution, its effects on health and property, and what is being done to help solve the problems.

Problems of Conservation - Forest and Range (14 min.; colour) (Jr. High - Sr. High)

Presents the struggle to retain large undeveloped areas, while demands of a rapidly expanding population press upon these areas.

Problems of Conservation - Water (20 min.; colour) (Jr. High - Sr. High)

Focusing on some of Southern California's problems, the film shows innovative ways to increase water supplies - percolation ponds, desalination of salt water, artificial weather control.

Rainshower (15 min.; colour) (Elem. - Int.)

The sights and sounds, beauty and rhythm of rain. Narration is used only for the introduction. A listening and observing film.

Realities of Recycling (38 min.; colour) (Sr. High)

The problems and potential of recycling.

River: A First Film (9 min.; colour) (Elem.)

A river derives its water from the rain and snow that fall on the highest part of the land.

River with a Problem (28 min.; colour) (General)

A film on water pollution, using the Ottawa River as an example of what happens when the river is used as a dumping place for municipal and industrial waste.

The Robin (10 min.; colour) (Elem. - Sr. High)

Shows feeding, nesting and caring of the young.

Robin Redbreast (2nd Edition) (10 min.; colour) (Elem. - Int.)

Activities and habits of a robin family.

Rocks and Minerals: How We Identify Them (13:30 min.; colour) (Int. - Jr. High)

Study of the identification of rocks and their origins by examining their texture, pattern and composition.

Rocks that Form on the Earth's Surface (16 min.; colour) (Int. - Sr. High)

Designed to help students investigate sedimentary rocks.

Root Development (10 min.; B & W) (Jr. High - Sr. High)

The use of micro-photography, speeded up 30,000 times, reveals details of root structure and growth.

Roots of Plants (11 min.; colour) (Int. - Sr. High)

Describes different kinds of roots and explains the vital role they have in plant survival.

Say Good-bye (Part I and II) (52 min.; colour) (Int. - Sr. High)

This film concerns itself with the survival of the entire animal kingdom.

Seasonal Changes in Plants (10 min.; colour) (Elem. - Int.)

Explains why and how plants change as the seasons change, using typical examples of annual, biennials and perennials as illustrations.

The Seasons (20 min.; colour) (Int. - Sr. High)

Beautiful photographic sequences follow seasonal changes in nature from spring through summer, autumn and winter and again in spring.

Seed Dispersal (10 min.; B & W) (Int. - Sr. High)

Portrays the dispersal of plant seeds by wind, transportation by animals and propulsion from seed cases.

Simple Plants - Algae and Fungi (20 min.; colour) (Jr. High - Sr. High)

This film describes the major characteristics of simple plants and shows how they differ from higher plants.

Ski (20 min.; colour) (Int. - Sr. High)

Ski the Outer Limits (26 min.; colour) (Int. - Adult)

Daring somersaults and humorous interludes turn this rigorous sport into a graceful outdoor ballet.

Skiing and Beginning Movements (11 min.; B & W) (Jr. High - College)

The film uses slow motion, stop-action, close-ups and animation to show a wide variety of ski techniques.

The Slow Guillotine (Part I and II) (60 min.; colour) (Sr. High)

Danger of air pollution to large cities, focusing on future medical and agricultural problems.

Smoke and Weather (21 min.; colour) (Int. - Sr. High)

This film shows how a lookout man is trained to detect and report forest fires from a tower and how fire weather observations are made and used.

Snakes and How They Live (13 min.; colour) (Int. - Jr. High)

An open-end inquiry approach to snakes, which will lead to further investigation and discovery.

Snow Speed (10 min.; B & W) (Int. - Sr. High)

Thrilling shots of expert skiers in action.

Spring Comes to the Sub-Arctic (20 min.; colour) (Jr. High - Sr. High)

Illustrates the meaning of timberline or "treeline".

Spring is an Adventure (10 min.; colour) (Elem. - Int.)

The changes that take place in spring.

The Spruce Bog (20 min.; colour) (Int. - Sr. High)

Shows the successive stages of development of a spruce bog.

Squeak, the Squirrel (10 min.; B & W) (Elem. - Int.)

Excellent film to promote oral or written expression and for general interest.

Surface of the Earth (10 min.; colour) (Int. - Sr. High)

An explanation of the forces that are at work building up and wearing away the surface of the earth.

Survival on the Prairie (60 min.; colour) (Jr. High - Sr. High)

Describes the effect that farming had on the prairies, and the need for protective measures to insure their survival.

Survival Swimming (14 min.; B & W) (Elem. - Sr. High)

Shows techniques for floating, treading water and conserving energy, stresses prevention of accidents.

That They May Live (30 min.; colour) (Int. - Adult)

Demonstrates techniques of mouth-to-mouth artificial respiration.

Three Little Bruins in the Woods (10 min.; B & W) (Elem. - Int.)

Animals of the Forest.

Toads (10 min.; colour) (Elem. - Jr. High)

Trout Lake Cree (Part I and II) (60 min.; B & W) (Jr. High - College)

Documentary on the life of the Trout Lake Cree.

Trout Stream (10 min.; colour) (Elem. - Jr. High)

Urban Uses of Land for Industry (18 min.; colour) (Jr. High - Sr. High)

Study of some of the uses of land in a large city for many different kinds of industry.

Vacant Lot (20 min.; colour) (Int. - Sr. High)

The inter-relationships of wild flowers and common weeds, plant-eating insects and their predators, amphibians, reptiles, songbirds and mammals are studied as they contribute to the dramatic balance of nature.

Visit to the Waterworks (11 min.; colour) (Elem.)

The Voyageurs (20 min.; colour) (Int. - Sr. High)

A colorful record of this aspect of frontier history.

The Water Dilemma (21 min.; colour) (Jr. High - College)

Proponents and opponents of North American water development schemes, discusses past, present and future programs.

Waterfowl - A Resource in Danger (20 min.; colour) (Int. - Sr. High)

The prairies are incubators of vast numbers of Canadian waterfowl, principally ducks, but as more land is drained and cultivated, there are fewer breeding grounds.

Water in the Air (13 min.; colour) (Int. - Jr. High)

Shows how water influences our weather changes.

Water, Water, Everywhere (4 min.; colour) (General)

An underwater close-up of the death of a trout in polluted water.

Wanted Alive (10 min.; colour)

Views the endangered species of animals and birds that may soon disappear and those that have become extinct through man's destruction of their natural environment.

Wearing Away of the Land (10 min.; B & W) (Sr. High)

Depicts how land is affected by chemical decomposition, glacial movements, wind and wave actions.

Weather: Understanding Storms (10 min.; B & W) (Int. - Jr. High)

This film shows how temperature, pressure and moisture interact to bring about the various types of storms.

Weather: Why It Changes (10 min.; B & W) (Int. - Jr. High)

This film gives a simple and clear explanation of how and why changes in weather occur.

What Makes Them Run (20 min.; colour) (Elem. - Sr. High)

Orienteering.

Who Killed Lake Erie? (Part I and II) (60 min.; colour) (Jr. High - Sr. High)

Pollutants poured into the lake are changing the chemical composition of the water and altering the delicate balance of plant and animal life in Lake Erie.

Wild Fire (Part I and II) (60 min.; colour) (Jr. High - Sr. High)

Forest conservation.

Your Environment is the Earth (13 min.; colour) (Jr. High)

Demonstrates that our environment is our surroundings.

3. DEPARTMENT OF CONSUMER AND CORPORATE AFFAIRS AND ENVIRONMENT

3. DEPARTMENT OF CONSUMER AND CORPORATE AFFAIRS AND ENVIRONMENT

ENVIRONMENTAL MANAGEMENT

PUBLICATIONS

Publications are available from:

Department of Consumer and Corporate Affairs and Environment
Environmental Management Division
Box 7, Building 2, 139 Tuxedo Avenue
Winnipeg, Manitoba
R3N 0H6

Telephone: 895-5337

ANNUAL REPORTS

Outlines activities of the Manitoba Department of Mines, Natural Resources and Environment. Each year's report covers the period from April 1 to March 31, the following year.

ECO-ACTIVITIES FOR ELEMENTARY SCHOOLS

Activity sheets of eco-art, experiments, field trips, indoor projects for teachers and group leaders. Can be adapted to your particular community and age group.

EIGHTH DAY EARTH SENSE

An environmental adventure. This is a compilation of games and exercises for children 8-12 years. Focus is the understanding of nature's interaction and interdependence of all flora and fauna in our environment.

ENVIRONMENT AND THE LAW** (1972)

A summary of environmental jurisdictions and federal anti-pollution legislation in Canada.

ENVIRONMENT SOURCE BOOK (1978)

A guide to Environmental Information in Canada. (Joint project by Department of Environment and Provincial environment and renewable resources departments.)

INFORMATION SERIES

The following publications are fully illustrated, in-depth reports.

Information Series # 1 - Is Lake Winnipeg Polluted?
Information Series # 2 - Tree Improvement in Manitoba
Information Series # 3 - The Snow Geese of La Perouse Bay
Information Series # 4 - Lake Winnipeg Whitefish
Information Series # 5 - Lake Manitoba - The Third Great Lake
Information Series # 6 - The Winnipeg River
Information Series # 7 - Community Noise
Information Series # 8 - Rural Area Solid Waste Disposal
Information Series # 9 - Environmental Agencies and Activities in Manitoba
Information Series # 10 - The Red River in Manitoba
Information Series # 11 - The Wildlife Cycle in Manitoba
Information Series # 12 - Guidelines for Mosquito Control in Manitoba
Information Series # 13 - Mule Deer
Information Series # 14 - Private Sewage Disposal Systems
Information Series # 15 - Air Pollution Control in Manitoba
Information Series # 16 - Water: Its Supply and Conditioning

LITTER AND THE LAW

Outlines Regulation 259/74 of the Clean Environment Act, which has been instituted to control the litter problem in Manitoba.

THE ALL-CANADIAN CLEAN-UP** (1974)

An outline of the work and concerns of the Federal Environmental Protection Service.

WHY ALL THE FUSS ABOUT PHOSPHATES?

Describes the problem of phosphate pollution and how to minimize it.

A BILLPAYER'S GUIDE TO FURNACE SERVICING*

How to save money and Canada's Energy Resources by proper furnace servicing.

KEEPING THE HEAT IN*

How to re-insulate your home to save energy and money.

THE GARBAGE BOOK*

How to save energy and money by throwing out less.

100 WAYS TO SAVE ENERGY AND MONEY IN THE HOME*

Tips on how you can stretch Canada's energy resources and put money in your pocket.

Due to restricted printing we reserve the right to limit quantities. All publications are free of charge.

* Publications provided by Federal Government - Department of Energy, Mines and Resources Canada

** Publications provided by Federal Government

4. DEPARTMENT OF NATURAL RESOURCES

a) Parks Branch

b) Public Information Services

c) Surveys Branch

d) Natural Resources Library

4. DEPARTMENT OF NATURAL RESOURCES

a) PARKS BRANCH

200 Vaughan Street - 3rd Floor
Winnipeg, Manitoba
R3C 1T5

Telephone: 944-3703

Information and programs are available to teachers and students by contacting the above address or phone number. All information except the Canoe Route Maps is provided at no cost as a service to the education community.

A. PROGRAMS

1. GROUP USE INFORMATION

a. PARK ENTRANCE PASSES

Free entrance to Provincial Parks will be extended to the following groups for day-use and special-use programs.

- School and youth groups
- Charitable organizations

i. Designated school buses (those displaying in 8" high lettering "SCHOOL BUS" front and rear, with flashing lights affixed to the vehicle) transporting students on day-use or special-use programs will be allowed free entrance into provincial parks up to and including Saturday, June 30, 1979.

ii. After Saturday, June 30, 1979, all school buses transporting organizations and/or groups on day-use or special-use programs must present a Special Triangle Pass for free entrance into provincial parks. These passes will be provided by the Branch upon written application to the Chief of Operations, 200 Vaughan Street, Winnipeg. These passes are granted for the period as specified and must be surrendered to the gate attendant.

iii. Charitable organizations utilizing a charter bus or vans requiring free entrance from May until September will be provided passes upon written application to the Chief of Operations, Parks Branch, 200 Vaughan Street, Winnipeg. These passes are granted for the period as specified and must be surrendered to the gate attendant.

Senior citizens driving their own vehicles will be afforded free entry upon presentation of proof of age. However, senior citizen groups utilizing charter buses or vans (May 12 - September 3) must apply for special triangle passes from 200 Vaughan Street, Winnipeg.

iv. Special two-hour passes for the Day Camp and Group-Use site at Birds Hill Provincial Park will be made available for private cars or service vehicles transporting handicapped persons or children.

b. GROUP USE FACILITIES AND SERVICES

Group use facilities are available at many of our parks for use by qualified groups. These include group camping and day areas and are available on the following basis:

i. Free group camping privileges are available to school organizations and charitable groups utilizing group camping sites.

ii. School groups wishing to use regular campground sites will be required to pay the regular campground fee.

c. GROUP USE AREAS

The following list indicates which parks contain group use areas and the address at which a reservation can be made. Again, we urge advanced reservations and arrangements in your field trip planning.

Birds Hill Provincial Park
Park Ranger, Don Emes
P.O. Box 183, R.R. #2
Dugald, Manitoba, R0E 0K0

Falcon Lake
Park Ranger, L. Harley
Falcon Lake, Manitoba
R0E 0N0

Caddy Lake
Park Ranger, D. Hlady
West Hawk Lake, Manitoba
R0E 0N0

White Lake
Park Ranger, V. Jeffrey
Rennie, Manitoba
R0E 1R0

St. Malo Provincial Recreation Park
Park Ranger, Don Emes
P.O. Box 183, R.R.#2
Dugald, Manitoba, R0E 0K0

Spruce Woods Provincial Park
Park Ranger, R. Enns
Box 247
Carberry, Manitoba, R0K 0E0

Turtle Mountain Provincial Park
(Adam, Max and William Lakes)
Park Ranger, L. Matwee
Box 820
Boissevain, Manitoba, R0E 0E0

Duck Mountain Provincial Park
(Wellman Lake)
Park Ranger, R. Danielson
P.O. Box 239
Swan River, Manitoba, R0L 1Z0

Hecla Island Provincial Park
Park Ranger, R. McFadyen
Box 70
Riverton, Manitoba, R0C 2R0

Camp Morton Provincial Recreation Park
Park Ranger, D. DeBacker
Winnipeg Beach, Manitoba
R0C 2G0

Clearwater Provincial Park
Park Superintendent, B. Bastian
Box 2550
The Pas, Manitoba, R9A 1L4

Asessippi Provincial Park
Park Ranger, W. Roper
Box 76
Inglis, Manitoba, R0J 0X0

Stephenfield Provincial Recreation Park
Park Ranger, K. Fehr
Box 908
Portage la Prairie, Manitoba
R1N 3C4

d. SCHOOL PROGRAM (OUTDOOR EDUCATION PROGRAM)

Educational programs in certain parks are available to school groups only. The regional interpreter may, at his/her discretion, provide this service to non-school groups, but staff and time availability may limit this service. These programs will be jointly planned by our regional interpreters and teachers. To aid the interpreters and teachers in planning park school programs, an annotated inventory of outdoor information/activity programs has been prepared. Requests for this inventory or information on our program should be directed to:

Outdoor Education Coordinator
Parks Branch
200 Vaughan Street - 3rd Floor
Winnipeg, Manitoba, R3C 1T5
Phone: 944-4385

Bob Federowich
(Spruce Woods P.P.)
Box 247
Carberry, Manitoba, R0K 0H0
Phone: 827-2543 or 834-3223

Rod MacCharles
(Birds Hill P.P.)
Interpretive Coordinator
Eastern Region, R.R.#2
Dugald, Manitoba, R0E 0K0
Phone: 222-9151/1818

Jim Tallosi
(Turtle Mountain P.P.)
District Interpreter
Box 280
Boissevain, Manitoba, R0E 0E0
Phone: 534-6803

Regional Interpreter
Northern Region
Box 2550
The Pas, Manitoba, R9A 1M4
Phone: 623-6411, Ext. 251

e. OUTDOOR RECREATION

The parks may provide your group with opportunities to experience the landscape through canoeing, cross-country skiing, snowshoeing, walking, backpacking and cycling. There are trails and routes of varying lengths and difficulty, some of which have a map, pamphlet or brochure describing them. To obtain maps or pamphlets, write or call the Parks Branch, 200 Vaughan Street, Winnipeg, Manitoba, 944-4361.

For other information regarding outdoor recreation opportunities, call or write the previously mentioned park rangers or park interpreters.

f. SUMMARY

The following chart, Table 1, outlines the various facilities, programs and activities that are of special value to groups wishing to have an educational, recreative and enjoyable park visit. We invite teachers and group leaders to study Table 1 and the preceding descriptive information in making their plans for group visits to the parks. Those wishing to reserve a facility or receive programming assistance, to ensure a successful outing, should provide our staff with the following information:

- name of group (address)
- desired service
    - camping area requested
    - day-use area requested
    - school program (priority to school groups)
    - scheduled public program (available to any group)
    - trail or route map and information desired
- group size
- arrival and departure times and dates
- contact person and phone number

In some group use locations, the use of wheeled recreation or motor vehicles may be restricted.

As many requests for space are received, please be in contact prior to May 1st, to avoid disappointment.

The Parks Branch is looking forward to assisting you with your school program and outdoor recreation plans, so that your students and group members may enjoy Manitoba's Provincial Parks.

TABLE I

GROUP SERVICES

FACILITIES, RECREATION OPPORTUNITIES

AND EDUCATIONAL PROGRAMS

PARKS	Canoe Routes	X-C Ski & Snow-shoe Trails	Walking, Hiking & Backpacking Trails	Self Guiding Interpretive Trails	Scheduled Public Programs				School Programs (Outdoor Education)	Group Use Areas (Summer only)
					Amphi-theatre	Conducted Walks	Other Events	Interpretive Centre/ Museum		
EASTERN REGION										
Birds Hill		X	X	X	X	X	X	X	X	X
WHITESHELL										
Falcon		X	X	X	X	X	X			X
Caddy	X		X	X						X
White										X
Big Whiteshell					X					
Nutimik				X	X			X		
Alf Hole								X		
Grand Beach				X	X	X	X			
Camp Morton										X
Hecla		X	X		X	X	X	X		X
St. Malo										X
WESTERN REGION										
Spruce Woods	X	X	X	X	X	X	X	X	X	X
Stephenfield										X
Turtle Mountain		X	X	X	X	X	X		X	X
Duck Mountain			X	X						X
Asessippi										X
NORTHERN REGION										
Clearwater		X				X	X		X	X
Grass River	X									
Paint Lake	X	X	X			X	X			X

B. PAMPHLETS

1. INTERPRETIVE TRAILS

Assinika Interpretive Trail
McGillivry Nature Trail
The Cedar Bog Interpretive Trail
Shining Stone Interpretive Trail
Beaver Creek Interpretive Trail
Isputinaw Interpretive Trail
Ancient Beach Interpretive Trail
Spirit Hills Interpretive Trail
Dead Lake Interpretive Trail
Oxbow Interpretive Trail
SIPWA Interpretive Trail

2. INTERPRETIVE INFORMATION

Birds Hill Provincial Park
Wild Rice (The Unknown Crop)
Alfred Hole Wild Goose Sanctuary
Ice Fishing in Manitoba
Slush Modelling
Bear Parks and You
The Grand Old Days of Grand Beach
Hecla
Manitoba Winter
Winter in the Whiteshell
Spruce Woods Provincial Park
Grand Valley

C. MAPS

1. CANOE ROUTE MAPS

Grass River Canoe Route
Kautunigan Route
Little Grand Rapids Canoe Route

The Middle Track and Hayes River Route
Mistik Creek Canoe Route
Riviere aux Rats Route des Canots (French version)
Riviere aux Rats Canoe Route (English version)
Sasaginnigak Canoe Courtry
Whitemouth River Canoe Route
Winnipeg River Routes
Frances Lake Canoe Route

2. PARK MAPS

Spruce Woods Provincial Park
Duck Mountain Provincial Park
Nopiming Provincial Park
Whiteshell Provincial Park
Turtle Mountain Provincial Park
Asessippi Provincial Park
Birds Hill Provincial Park
Moose Lake Provincial Recreation Park
Bakers Narrows Provincial Recreation Park
Manipogo Provincial Recreation Park
Grand Beach Provincial Park
Grand Valley Provincial Recreation Park
Hecla Provincial Park
Norquay Provincial Recreation Park
Paint Lake Provincial Recreation Park
St. Malo Provincial Recreation Park
Stephenfield Provincial Recreation Park
William Lake Provincial Recreation Park
Lynch's Point Provincial Recreation Park

3. WINTER RECREATION MAPS

Whiteshell Provincial Park

- Power Toboggan Trails
- High Lake Cross-Country Ski Trail
- Falcon/West Hawk Cross-Country Ski Trails

Whitemouth River Cross-Country Ski Trail

Sandilands Provincial Forest

- Snowmobile Trails
- Cross-Country Ski Trails

Hecla Provincial Park

- Winter Recreation Trails

Grand Beach Provincial Park

- Snowmobile Routes

Birds Hill Provincial Park

- Winter Recreation Trails

Spruce Woods Provincial Park

- Winter Recreation Trails

Turtle Mountain Provincial Park

- Winter Recreation Trails

D. BOOKS

Information on the following topics is available for use only in the Parks Branch Library:

- Systems Planning
- Master Planning
- Tourism Development
- Interpretation
- Outdoor Education
- Outdoor Recreation
- Ecology
- History

Parks Branch Library
200 Vaughan Street - 3rd Floor
Winnipeg, Manitoba, R3C 1T5
Phone: 944-3703

4. DEPARTMENT OF NATURAL RESOURCES

b) PUBLIC INFORMATION SERVICES

Pamphlets, films and video tapes are available from:

Department of Natural Resources
Public Information Services
Box 22, 1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Telephone: 786-9247

(i) Pamphlets

(Classroom sets are available to school libraries on request.)

BIRDS AND MAMMALS

Upland Game Birds and Big Game of Manitoba

A folder about the habitats and life cycles of upland game birds and game animals.

Birds in the City

Tells of the wide variety of birds that can be seen in Winnipeg.

Manitoba Waterfowl

Includes colour photographs and descriptions of some of the common Manitoba waterfowl.

Uninvited Guests (The Prairie Duck Problem)

The duck crop-damage problem.

Ducks Unlimited

A folder/wall chart illustrating ducks.

Birds of Oak Hammock

Checklist of birds of the Oak Hammock Marsh Wildlife Management Area.

Birds Protected in Canada (Limited Quantities)

Lists all bird species protected in Canada under federal law.

A Glimpse of Wild Nature

Offers an intimate study of the lifestyles of hawks and owls.

Extinct, Rare and Endangered Wildlife in Manitoba

Explores the status of wildlife, past, present and future, in Manitoba.

A Nest Box for Wood Ducks

A Home for Purple Martins

A Home for Swallows or Bluebirds

Simple set of plans and instructions to get you started.

The Great White Bears

An up-to-date account of the polar bear.

The Wild Dogs

Defense of the wolf is presented by facts that are now known.

Manitoba's Wildlife Heritage

Suggests what landowners can do for various species of wildlife.

Birds of Churchill

Whether you're a keen "birder" or naturalist, this informative guide to the birds of Churchill will prove invaluable and add to your knowledge of this interesting area.

Winter Bird Feeders

Birds of Delta Marsh Checklist

Information and checklist on Delta Marsh for birders.

Canada Geese of Hudson Bay Lowlands

Details life history and nesting habits of Manitoba's Canada Geese.

THE ENVIRONMENT

A Sampling of Manitoba Nature

Many interesting natural happenings occur in Manitoba throughout the year - what to look for.

Land for Wildlife and People

A full series of brochures which explore Manitoba's unique wildlife management areas.

A Crop of Priceless Treasures

The Carberry Sandhills.

Flood Control

Describes the major floor control systems employed throughout Manitoba.

Mining in Manitoba

Illustrated chart outlines the key production activities of a modern mine.

Looking at Rocks

Field locations of a wide variety of rocks and minerals throughout Manitoba.

Conservation Comment

A monthly newsletter dealing with a wide variety of topics pertaining to conservation in general and to Manitoba in particular. Any interested person can be placed on the mailing list free of charge.

Rosedale Farm Conservation Project

A successful land management project in S.W. Manitoba

Taiga, Tundra and Tidal

An introduction to Manitoba's unique coastal region, this informative book with its many photographs should be of particular interest to teachers, students and northern visitors.

100 Plus Years of Wildlife Protection and Development in Manitoba

This publication concisely brings together the complete history and major events of wildlife management in Manitoba during the past century.

The All Canadian Clean-up

An informative federal government publication (English/French) which outlines the work and concerns of the Federal Environmental Protection Service.

Wildlife Protection in Manitoba

Why protect our wildlife? This publication attempts to answer this important question, while also providing an up-to-date species listing for the province.

Preventing Big Game Damage to Crops

This brochure provides landowners with information on Manitoba's Big Game Compensation Program. It informs landowners on how to protect crops against damage by big game animals and also how to apply for compensation if damage does occur.

FISH AND FISHING

Sport Fishing Guide

Contains information about angling seasons, regulations and the master angler award. (given to everyone who purchases an angling licence)

Fish for the Future

A study of fish hatchery operations in Manitoba.

Fishes of Manitoba

Colour wall chart illustrates Manitoba's major fish species and the kind of habitats which they frequent.

Warmwater Fish

Gives a brief outline about many of Manitoba's "rough" or "coarse" fish species.

The Fishing Bulletin

Published 5 times a year, it provides information on the development of Canada's fresh water fishery.

Trout Farming in Manitoba

Gives full detailed information and requirement of trout farming.

Trophies for Tomorrow "Go Barbless"

Campaign to encourage use of barbless fishing hooks, by fishermen.

Key to Manitoba's Sports Fish

For fishermen, a fish checklist with related fisheries information.

How to Build a Fishing Skiff

25 easy steps and a bit of woodworking skills - you're fishin!

Coldwater Fish

This booklet gives a brief outline about Manitoba's trout and other coldwater sports fish. This is not a "how to catch" manual, but provides capsule information on these exciting sports fish species.

Hook n' Cook Series

A series of information brochures on Manitoba's exciting sports "rough" or "coarse" fish. Discover a "new" world of great sports fishing right on your doorstep.

FORESTS AND FORESTRY

Just a Bunch of Trees

Explores the interplay of factors that determine the nature of a forest and looks at some of the things that can destroy a forest.

Pineland Forest Nursery

Outlines step-by-step the process involved in regenerating Manitoba's forests.

About Pulp and Paper

Details about the pulp and paper industry in Canada, its history, products and future.

Smokey the Bear

A varied selection of booklets, brochures, posters, stickers and pamphlets dealing with forest fire prevention.

Dig-Your-Own

Outlines the correct methods of transplanting wild native trees and shrubs.

Wildfire

Why we need to protect Manitoba's Forests - Fire, its good and bad effects.

Green Gold Harvest

Outlines the vital importance of the total Forest Industry to the Manitoba economy.

Field Guide to the Native Trees of Manitoba

Like people in a crowd, trees in a forest tend to look alike. But look closely and you will find that each has a character and distinctiveness of its own. This handy pocket size book, with its many illustrations, allows you to quickly identify all 24 native Manitoba trees.

The Portable Sawmill Book

This publication is intended to provide communities and small sawmill operators with information on how to establish, operate and maintain a small sawmill.

HUNTING

Beware of the Spoil Sport

This leaflet uses cartoons to illustrate some of the worst things a hunter can do.

Grant's Lake/Oak Hammock

Explains in detail the new game management plans and regulations for the Grant's Lake and Oak Hammock areas.

Facts About Manitoba Waterfowl Hunting Regulations

Basic information on Manitoba's migratory hunting regulations (1979-83).

Field Handling of Game

This valuable aid to hunters and fishermen illustrates the proper methods of handling game, including deer, moose, bear, game birds and fish. The various methods of cleaning, dressing and storing are discussed.

Don't Be A Skybuster

Skybusters are hunters who shoot at game and other birds, at distances exceeding effective killing range. This handy brochure provides a wealth of information on shooting and what positive steps the hunter can take to eliminate this unnecessary problem.

Waterfowl Hunters Target Pattern Sheet

A help to the hunter - check your shotgun pattern along with valuable information to assist quality hunting in Manitoba.

Game Bird and Big Game Seasons

Contains season and bag limit information for hunters. Also includes some of the Wildlife Act Regulations which affect hunters. Published annually.

Hunter-Killed Livestock

This brochure explains the compensation program available to land-owners who lose livestock accidentally to hunters. It gives a history of the program, funds paid to date and tells how to apply for compensation.

INFORMATION SERIES (Available in limited quantities)

1. Is Lake Winnipeg Polluted?
2. Tree Improvement in Manitoba
3. The Snow Geese of La Perouse Bay
4. Lake Winnipeg Whitefish
5. Lake Manitoba - The Third Great Lake
6. The Winnipeg River
7. Community Noise
8. Rural Area Solid Waste Disposal
9. Environmental Agencies and Activities in Manitoba
10. Water Quality - Red River
11. The Wildlife Cycle in Manitoba
12. Mosquito Control
13. Mule Deer
14. Private Sewage Disposal Systems
15. Air Pollution Control
16. Water: Its Supply and Conditioning

PEOPLE

Wilderness Corps

The department's extension service program for young people.

The Outsider

A periodic newsletter which focuses on environmental projects, education and life-sport activities.

Botch-Up-Manship

Humorously points out some of the pitfalls in wilderness camping and what can happen to careless campers.

Quite a Bit About Maps and Compasses

Everything you've always wanted to know about maps and compasses.

Teacher Attitudes to Environmental Education

A survey of teachers' attitudes to environmental education in Manitoba.

The Memory Makers

Outlines some of the outstanding recreational opportunities available in Manitoba and how to obtain a registered guide.

The Mantario Hiking Trail

A detailed trail guide and map for experienced backpackers.

Pisew Falls Interpretive Trail

Designed to give a brief descriptive guide for visitors or school groups.

Sioux Pass Marsh Area (Delta Marsh)

Designed to give a brief descriptive guide for visitors or school groups.

PLANTS AND FLOWERS

Some Edible and Poisonous Berries

Describes poisonous and edible plants common to Alberta, Manitoba and Saskatchewan.

A Taste of Wild Fruits

Outlines the many varied and enjoyable uses of wild fruits. Recipes available on request.

Native Manitoba Plants, in Bog, Bush and Prairie

All about Manitoba's wild plants - learn to recognize and appreciate them.

TRAPPING

Furbearers of Manitoba

Contains illustrations and descriptions of 16 of Manitoba's most economically important furbearing animals.

How to Grade Furs

Describes the general principles that govern the grading of new furs in Canada.

Trapping Seasons Brochure

An information service for persons interested in fur production and trapping. Yearly publication.

The Manitoba Trapper's Guide

Designed for and distributed to people actually engaged in trapping, with illustrations of traps for various types of furbearers.

ALSO AVAILABLE

Annual Reports

Outlines activities of the Manitoba Department of Renewable Resources and Transportation Services. Each report covers the period from April 1 to March 31, the following year.

Posters and Other Environmental Education Materials

A number of posters and other environmental education aids are on occasion made available to tie in with specific information programs. Please enquire about current programs.

4. DEPARTMENT OF NATURAL RESOURCES

b) PUBLIC INFORMATION SERVICES

(ii) Films

To Order: - Write, drop in or telephone

- Determine when you want the films and/or video tapes, which ones you want, where and how to ship them. Determine alternate choices.

* All films are 16 mm, colour, sound, unless otherwise stated.

* Films are not available outside the province.

BIRDS AND MAMMALS

A Triology of Manitoba Wildlife (20 minutes each)

-Forest Trails

-Marshland Summer

-Prairie Seasons

These three films span the different types of habitat found in southern Manitoba. They can be shown as a series or individually.

Adaptions for Survival (15 minutes)

Shows how birds are well adapted to survive in the environment in which they live.

A Way of Life (27 minutes)

This film demonstrates how almost every living thing, including man, is either a preditor or a prey species.

At the Threshold of Eternity (28 minutes)

Examines the problem - and causes - of birds and mammals that are in danger of becoming extinct. Shows some of the things being done to help these animals.

Balancing the Account (30 minutes)

Presents various viewpoints on stocking programs with fish, birds and game animals that have been carried out in this province.

Birds and Migration (18 minutes)

This film looks at various species to unravel some of the mysteries of migration.

Birds of Canada Series

Each film tells a story without words; only the natural sounds of the wild are heard.

White Throat (10 min.)

Birds of the Forest (5½ min.)

Water Birds (5½ min.)

Gull Island (8 min.)

Loon (6½ min.)

Death of a Legend (50 min. 37 sec.)

The wolf is yet another species threatened by man and his technology, and largely because of unfounded myths that have grown up around this animal.

Great Grey Owls (12 minutes)

This film is a life study of the Great Grey Owl.

Grouse Country (28 minutes)

Features spectacular film footage of many of the grouse found across Canada.

The Polar Bear (26 minutes)

Shows how the bears live - and how man is affecting them and studying them.

Marsh Blackbirds (24 minutes)

Shows the territorial and mating displays of Red-winged and Yellow-headed blackbirds.

Prairie Giant (22 minutes)

The Giant Canada Goose, long thought extinct, is brought to life again on the fields and marshes of Manitoba.

A Safe Polar Bear (16 minutes)

This Manitoba produced film shows what Conservation Officers and RCMP Officers do to protect the people and also describes the biological research of Canadian Wildlife Service Biologists.

So Little Time (28 minutes)

An examination of the critical state of North America's Duck population and some of the causes.

This is the Mallard (40 minutes)

The life story of the Mallard duck.

Watching Wild Wings (28 minutes)

Basically a duck identification film. Primarily of interest to hunters but naturalists may also learn from it.

Wild Wings (28 minutes)

The story of the Severn Wildfowl Trust near Slimbridge, England, and its role in waterfowl research.

THE ENVIRONMENT

Assiniboine Forest

Produced by the Winnipeg Real Estate Board as a Centennial project, this attractive film describes the numerous values of a natural area adjacent to a metropolitan city. Some of the many ways in which people can enjoy quiet contact with nature in all seasons of the year are shown.

Atonement (50 minutes)

This film shows the efforts being made to prevent more species from becoming extinct.

Backpack to Nature (28 minutes)

This film gives a good general idea of what backpacking is all about.

Canvasback (25 minutes)

This film indicates something of the pollution problem as related to birds.

Cry of the Marsh (12 minutes)

This powerful and candidly emotional film captures the nature of marsh life and what happens to it when man "reclaims" a marsh.

The Great American Goose Egg Company Ltd. (10 minutes)

A satire on the rise and fall of a fictitious resource exploiting company.

Land - For Wildlife and People (26 minutes)

In Manitoba, Wildlife Management Areas play an important role in assuring that there'll be wildland and wildlife for future generations to enjoy. This film looks at some of these areas and shows the management work that takes place in them.

Life in the Woodlot (17 minutes)

The story of a family-owned woodlot, how it is managed and how it can provide hunting.

Man the Polluter (52 minutes)

A series of cartoons for adults that use humour to point out the very real and pressing problems facing mankind.

A Matter of Attitudes (28 minutes)

A survey of the extent of water and air pollution in Canada.

Multiply and Subdue the Earth (70 minutes)

Explains the many ways in which our rapidly growing population is affecting both landscapes and people.

One Hand Clapping (10 minutes)

Noise can be one of the most nerve-wracking forms of pollution that surround us every day.

The Whole Earth's Invisible Colours (20 minutes)

Shows how wavelengths that are invisible to the eye can be photographed from planes and satellites.

Winter Gallery (20 minutes)

How to enjoy the snow and cold - see some of the sights that await those who venture in the winter.

FORESTS AND FORESTRY

After the Harvest (20 minutes)

This film demonstrates why clearcutting actually aids the reforestation process.

Day of Discovery (24 minutes)

Follow a group of Manitoba School Children on a day of discovery as numerous interesting facts are learned during a day spent in the forest.

Dutch Elm Disease (21 minutes)

Shows how to recognize trees infected with this disease and steps that should be taken to prevent its spread.

Foresters (13 minutes)

Modern forest techniques described in a way to make forest operations attractive.

Forestry (14 minutes)

A quick look at how the forestry industry operates in Manitoba.

Forests Forever (20 minutes)

Deals with the importance of Canada's forest land - the hazards that can threaten it - and what is done to safeguard it.

Keep it Green (7 minutes)

Six messages on forest fire prevention.

Smoke and Weather (23 minutes)

How forest fires are detected and controlled and what influence weather plays on forest fire dangers.

Smokey The Bear (15 minutes)

Tells the story of how this symbol of forest fire prevention came into being - while explaining some of the consequences of a fire. This film is suitable for ages 5 - 12.

Spruce Bog (22 minutes)

Shows how a Spruce Bog is formed.

Teamwork Spells Profit (10 minutes)

The operation of a portable sawmill in southeastern Manitoba is examined.

Wildfire (24 minutes)

Shows the planning, detection and suppression work carried out in the fight against forest fires.

OUTDOORS

Ice Safety (11 minutes)

This film shows what to watch for when walking or skating on ice and demonstrates several rescue and life-saving methods.

Look to See (20 minutes)

Provides a glimpse of 6 outdoor activities that people pursue during a Manitoba summer. It includes sequences on canoeing, bird watching, seeing the snake pits, fiddlehead collecting, visiting the tall-grass prairie and fly fishing. The film is suitable for audiences 10 years of age to adulthood.

Winter Survival (32 minutes)

Shows how to find food and shelter and how to reduce hazards such as snowblindness if you become lost in the winter wilderness. Suitable for 12 years to adult.

PEOPLE

Beaverman (6 minutes)

Views on the life of a trapper.

Commercial Fishing - A Way of Life (30 minutes)

This film takes a close look at one fishing dependent village to see what kind of life it is.

The Man - The Trapper (24 minutes)

Explores the issue of trapping.

The Miner (19 minutes)

Shows what life is like for a hardrock miner, both below and above ground.

Northern Fishermen (27 minutes)

Looks at the problems facing Indian fishermen in northern Saskatchewan and Manitoba.

You and Resource Management (34 minutes)

Outlines some of the types of work carried out by Resource Management agencies - and the various career opportunities that this creates. Shows the work of conservation officers, biologists, information workers, lands planners, foresters and others. Designed primarily for high school students trying to decide what type of career they would like to pursue.

WATER AND FISH

Among Fish (11 minutes)

A demonstration of how fish live, breathe, swim and float up or down in the water.

The Aquatic Ecologist (32 minutes)

Looks at some of the attempts being made in the United States to restore fish populations to former levels.

Fishing Five Great Lakes (30 minutes)

With emphasis on commercial fishing, shows how man's activities have affected the Great Lakes.

Freshwater World (25 minutes)

Shows some of the research work done by Environment Canada through the Freshwater Institute in Winnipeg. Suitable for ages 11 to adult.

Manitoba's Trout Farmers (24 minutes)

This film shows in some detail the way in which fingerlings are bought, stocked and harvested.

Rise and Fall of the Great Lakes (17 minutes)

A whimsical approach to the formation of the Great Lakes, showing geological succession and present-day use.

Sparkle (18 minutes)

A visually impressive essay on a beautiful creek and what can happen to it when man makes his appearance.

World in a Marsh (21 minutes)

An intimate view of the strange insects, small amphibious creatures and birds that live, devour and are devoured in a marsh.

4. DEPARTMENT OF NATURAL RESOURCES

b) PUBLIC INFORMATION SERVICES

(iii) Video Tape Recordings

The following programs are available for loan from Renewable Resources and Transportation Services. All programs are in black and white and are on ½" VTR tapes.

Bird Feeders in Winter (30 minutes)

How to go about setting up a winter bird feeder.

Cross-Country Skiing (30 minutes)

This tape covers equipment you will need and some of the basic skills of the sport.

Dog Sledging (30 minutes)

Program discusses many aspects of modern dog sledging.

The Fur Auction (30 minutes)

How Canada's first business works today.

Hunting Safety (30 minutes each)

Twelve programs on all aspects of safe gun handling.

Ice Fishing (30 minutes)

The sport of winter fishing.

Outdoor Photography (30 minutes)

Outdoor photographer, Bob Taylor, explains the equipment and techniques he uses.

Parasites in Moose (30 minutes)

Shows the kinds of parasites hunters can expect to encounter when preparing moose meat and what should be done about them.

Rocks and Minerals (30 minutes)

An introduction to the study of rocks, minerals and basic geology of Manitoba.

Rural Land Use (30 minutes)

How to manage our rural land areas for wildlife production - food production - and use by people.

Snowshoeing (30 minutes)

Shows the types of "shoes" available and some of the techniques used.

Wildlife Management Areas (30 minutes)

This program explains the purpose of W.M.A.'s in general and the specifics of a few.

4. DEPARTMENT OF NATURAL RESOURCES

c) SURVEYS BRANCH

Maps are available from:

Map Sales Office
1007 Century Street
Winnipeg, Manitoba
R3H 0W4

Telephone: 633-9543, Ex. 137

Unless otherwise requested, maps will be sent folded. New maps will be printed from time to time---Please inquire.

Handling fee for each mail order is 50¢. Make all cheques payable to the Minister of Finance.

All NTS sheets	$1.50	Hydrographic Charts	$4.00
1:1,000,000	1.00	Chart 1	1.00
1:500,000	2.00	Catalogues	1.00
Color Relief	2.00	6242	5.00
City of Winnipeg	1.00	Lake Depth	.25
CLI Maps	1.00	Map Scales (large)	1.00
Crown Land	1.75	(small)	.50
Geographical Names Book	5.00	MCR 3009 Fed. Electoral	1.00
Manitoba (letterhead)	.25	Ind. Fed. Elec.	1.00
Aeronautical Sectionals	1.00	MCR 10 Canada (large)	1.75
WAC and VFR	1.50	MCR 15 Canada (small)	1.50
Air Facilities	2.00	MCR 27 Prairie Provinces	1.50
Supplement	1.00	Biophysicals	3.00
Angling Map	1.50		

The Manitoba Air Photo Library

The Manitoba Air Photo Library provides aerial photo coverage to general public and other government departments. Used extensively by the technocrat, aerial photography is required for interpretation of ground data; however, it can also be of assistance to the general public where a map does not provide enough detail.

The library has on file all air photo coverage for the province of Manitoba from 1923 to the present. The scales of these photos vary from 5,000 to 120,000.

Copies of aerial photos are available within one day of placing an order, or prints from Ottawa can be ordered through the library. Persons wishing to view or order photography may do so in person at the:

Air Photo Library
1007 Century Street
Winnipeg, Manitoba

Additional information is available by phoning 633-9543, ext. 137.

The Map Sales Office

The Map Sales Office acts as a distribution centre for maps of Manitoba and Northwestern Ontario. In addition, map related information is provided and referrals to other government departments or map outlets are made. Referrals are often made to the air photo library as aerial photography is more suitable than a map, when a lot of detail is required.

Within the area indicated on the index on the following page, various types of maps are available for purchase.

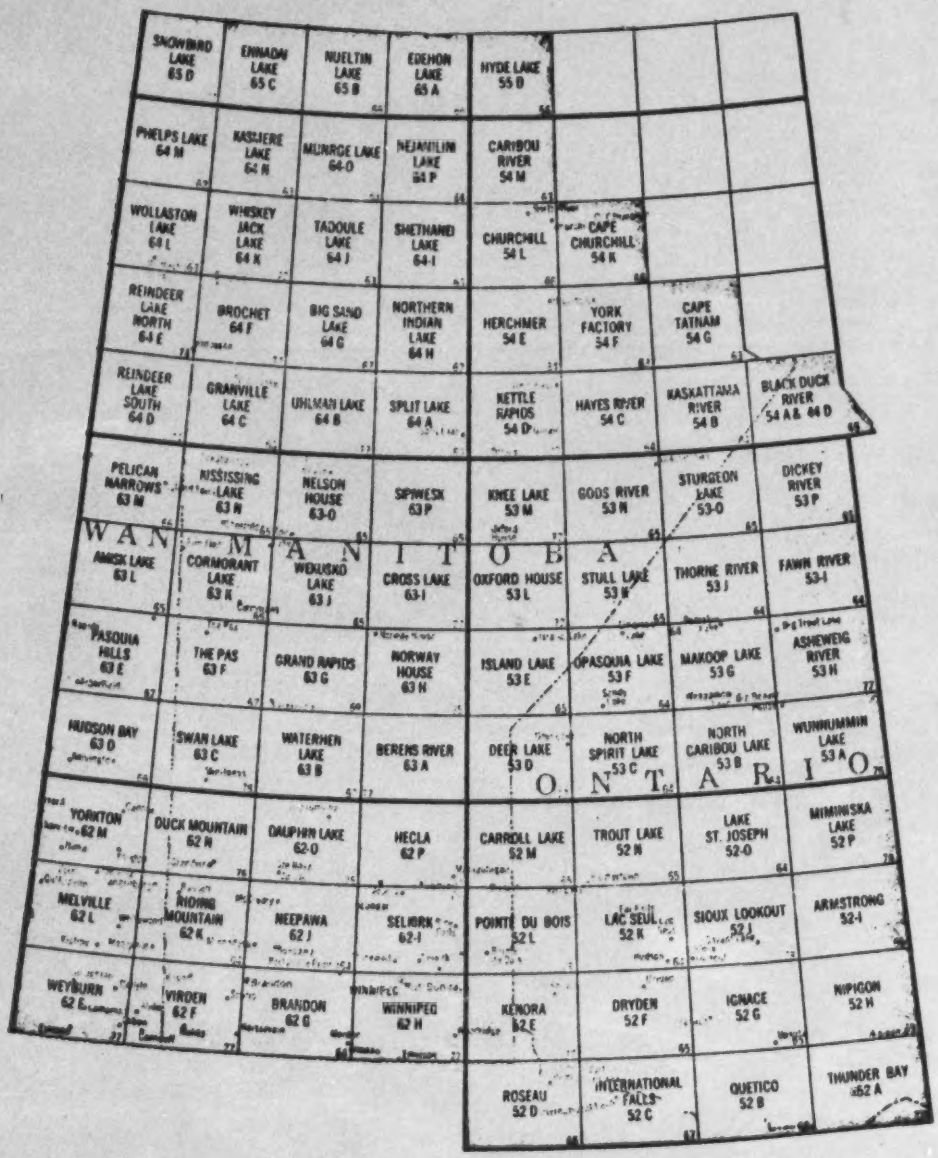
Topographic maps, from the National Topographic Series, provide information on natural physical features. They show land contours, rivers, lakes, swamp, wooded areas, railways, access roads, cities, towns and villages, and are available in various scales.

Information on major lakes and rivers are recorded on Hydrographic Charts. The charts include depths, major water routes, buoys, etc., and act as navigational aids for small crafts.

The Surveys and Mapping Branch prepare Special Interest Maps, which are available from the map office. These include Manitoba Base Maps, Southern Manitoba Road Maps, Manitoba Color Relief, Manitoba Flight Information, Landsat Mosaics, Municipal and LGD, Land Titles Districts, Electoral, School Divisions, Census Divisions, Crown Land, Angling Map, Canoe Route Maps, Lake Depth Maps and Soil Capability Maps.

Air Navigation Maps in the Aeronautical and World Aeronautical series are available, as well as miscellaneous mapping such as Community Base mapping, Township Diagrams and Survey Plans.

The Map Sales Office is open from 8:30 - 4:30 Monday to Friday.



4. DEPARTMENT OF NATURAL RESOURCES

d) *Natural Resources Library*

Box 26, 1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Telephone: 786-9299

Hours: 8:30 - 4:30
Monday - Friday

A wide variety of periodicals, books, pamphlets, reports and reprint articles are available on outdoor education subjects. Come in and browse.

5. DEPARTMENT OF TOURISM AND CULTURAL AFFAIRS

a) Historic Resources Branch

b) Photographic and Media Library

5. DEPARTMENT OF TOURISM AND CULTURAL AFFAIRS

a) *HISTORIC RESOURCES BRANCH*

Publications are available from:

Historic Resources Branch
3rd Floor
200 Vaughan Street
Winnipeg, Manitoba
R3C 1T5

Telephone: 944-4392

Archaeology: Its Methods, Goals and Objectives (No. 1, 11 pp.) Saylor, S. and J. Pelleck (1976)

The Relic Collector and the Law in Manitoba (1976) Archaeological Research Centre

Prehistoric Ceramics in Manitoba (1976) Dickson, G.

What Is in It for Us? (The Value of Archaeology) (1976) Kelly, M.

Archaeological Rescue Research in Northern Manitoba (1976) Mallory, O.

The Laurel Culture in Manitoba (1976) Tisdale, M.A.

Archaeology in Northern Manitoba (1976) Smith, M.

Manitoba Prehistory (1977) Pettipas, L.

Through the Ages in Grand Valley (1978) Syms, E.L.

Through the Ages at Wanipigow Lake (1979) Saylor, S.

5. DEPARTMENT OF TOURISM AND CULTURAL AFFAIRS

b) PHOTOGRAPHIC AND MEDIA LIBRARY

Films are available for loan from:

Department of Tourism and Cultural Affairs
Photographic and Media Library
Provincial Archives Building
304 - 200 Vaughan Street
Winnipeg, Manitoba
R3C 1T5

Telephone: 944-3998

Contact Person: Terry Kolodaychuk (Ms.)

To Order:
1. *List film by title.*
2. *Show date films are needed for.*
3. *Print name and address.*
4. *No rental charge - films are sent by mail only and should be returned the same way.*

**(All films are 16 mm, sound and colour.)*

Canoe (10 min.)

Depicts the journey of a lone canoeist in eastern Manitoba's wilderness lake country.

Everyman's Wilderness (26 min. and 13 min.)

This film presents the pleasant sights and sounds of nature, which await the vacationing visitor to Manitoba's colorful northland.

Manitoba in Wintertime (14 min.)

This film provides a colorful visual impression of life in the frosty months of winter.

Riding the Waves (27 min. and 13 min.)

A tour of Manitoba's rivers and lakes.

Manitoba Moods (13 min.)

This film takes viewers through Manitoba's parks from the Whiteshell to Grass River Provincial Park.

Big Country - Big Fish (13½ min.)

An angling trip to God's Lake and God's River in Northeastern Manitoba.

Fish?...Naturally! (13½ min.)

An angling trio show that in addition to the thrill of trophy seeking and fast fishing, there is good fun for those who cast off their cares and fish Manitoba.

Catch Our Good Nature

This film follows an ardent fisherman to several of Manitoba's most popular locations where he shares the techniques, triumphs and excitement of sport fishing with his hosts and viewers. A natural tone and disarming presentation enhance the real people, beautiful scenery and excellent fishing featured in the film.

B) FEDERAL DEPARTMENTS

1. CANADIAN FORESTRY SERVICE

Pamphlets

Available free of charge from:

Northern Forest Research Centre
5320 - 122 Street
Edmonton, Alberta
T6H 3S5

Telephone: (403) 435-7210

- Forests for People
- Canada's Forests 1978
- CFS Fact Sheet: Careers in Forestry
- CFS Fact Sheet: Fire in the Forest
- CFS Fact Sheet: Forestry and the Environment
- CFS Fact Sheet: From Trees to Paper
- CFS Fact Sheet: Maple Syrup Production
- CFS Fact Sheet: Planting Shade Trees
- CFS Fact Sheet: Forest Tent Caterpillar
- CFS Fact Sheet: Spruce Budworm
- CFS Fact Sheet: What Tree Rings Tell Us
- CFS Fact Sheet: Lumber and Plywood from Softwoods
- Conservation Activities
- Field Guide to the Native Trees of Manitoba
- Pest Leaflets--a series of 25 outlining control measures for the most common pests of urban trees and shrubs
- Tree Brochures--white spruce, black spruce, douglas-fir, balsam fir, white elm
- Ecotours--Calgary - Regina
  Calgary - Golden

2. CANADIAN GOVERNMENT PUBLISHING CENTRE

Pamphlets for Sale

Available for Sale from: *Canadian Government Publishing Centre*
Supply and Services Canada
Hull, Quebec
K1A 0S9

Catalogue No.	Modulus	Title	Price
A43-861	11011651	Mushroom Collecting for Beginners	.50
A43-948	10011687	Weeds of Canada (Revised 1974)	5.00
A43-974-1978	11097335	Ferns of the Ottawa District	3.25
A43-1112-1979	11108520	Edible and Poisonous Mushrooms of Canada	9.95
A43-1593-1976	11070276	The Cutworm Moths of Ontario and Quebec	8.50
A53-964	10011789	Ninety-Nine Range Forage Plants of the Canadian Prairies	3.00
A53-1113	10011841	Collection and Care of Botanical Specimens	5.00
A53-1182	10011853	Planning Your Garden	2.50
A53-1286	10011889	Ornamental Shrubs for Canada	5.00
A53-1288	10011804	Growing Canada's Floral Emblems	.75
A53-1393	10011930	Wild Rice	3.00
A53-1397	10011942	Common and Botanical Names of Weeds of Canada	1.50
A53-1405	11026437	Licensed Varieties of Cultivated Grasses and Legumes	15.00
A53-1544-1976	11070428	Soils of Canada (2 volumes)	25.00
A53-1646-1977	11088716	Canadian System of Soil Classification	9.00
A53-1662-1979	11110145	Budd's Flora of the Canadian Prairie Provinces	8.50

Catalogue No.	Modulus	Title	Price
A54-3-14	11076507	Oats: Wild and Cultivated	17.50
A63-1462	10011992	The Saddle Horse	1.00
A63-1514	11083499	Pheasants	1.50
CP32-12-1971	10024949	Environmental Management in Canada	4.50
CW65-7-4	10022402	Buffleheads (Cloth)	7.50
CW65-7-5	10022414	Snipe (Cloth)	7.25
CW65-8-22		Background for Managing Grizzly Bears in the National Parks of Canada	1.00
CW65-8-32		Migration of Lesser Snow and Blue Geese in Spring Across Southern Manitoba (Part 2: Influence of the Weather and Prediction of Major Flights)	1.00
CW65-8-34	11034270	The Northern Interior Grizzly Bear	4.50
CW65-8-37		Wetland Classification in Western Canada: A Guide to Marshes and Shallow Open Water Wetlands in the Grasslands and Parklands of the Prairie Provinces	2.00
CW66-4173	10022337	Sea Birds of Bonaventure Island	.50
CW66-36-1979	11108102	Ducks at a Distance	1.25
CW66-44-1975	11033696	Atlas of Eastern Canadian Sea Birds	6.75
EN42-2-75-1	11037997	Canada's Air Pollution Control Program	1.50
EN42-3-73-6	10278718	Air Pollution in the Urban Environment (Bil.)	.75
EN56-3-1974	10203191	Weather and Why	3.00
EN56-5-1974	10203204	Its in the Wind	1.25
EN56-162	10203216	Climate of Canada	1.00
EN102-1-15	11077458	Environmental Appropriate Technology Renewable Energy and Other Developing Technologies	3.75

Catalogue No.	Modulus	Title	Price
F023-19-1975	11058016	Aerial Control of Forest Insects in Canada	15.00
F045-121	10241254	Forest Flora of Canada (Bil.)	3.75
F047-1300	10241278	Forest Regions of Canada	3.50
F047-1313	10241292	Insect of Eastern Pines	3.00
F047-1340-1	11064920	Conservation in Canada (Paper)	9.50
F052-25-1975	11024318	Impact of Harvesting on Forest Environments and Resources	6.75
F064-4	11059551	Pine Stem Rusts of Canada	8.00
FS4-31-22	10241521	The Algal Bowl - Lakes and Man	3.75
FS94-184	10242876	Freshwater Fishes of Canada (Cloth) (Reprint)	24.95
H31-1373	10247965	Sanitation Manual for Isolated Regions	1.25
R62-82-1974-1	10252536	Wild Rivers - Saskatchewan	1.50
R62-82-1977-5	11075911	Wild Rivers - James Bay and Hudson Bay	1.50
R62-82-1978-7	11098820	Wild Rivers: Central B.C.	1.50
R62-82-1976-4	11064778	Wild Rivers: Quebec North Shore	1.50
R62-82-1979-8	11106956	Wild Rivers: The Barrenlands	1.50
R62-98-1976	11066102	Foul and Loathsome Creatures	1.50
R72-12574	10253413	The More Northerly Route	1.95
T56-464	10208420	Weather Ways	2.50

3. DEPARTMENT OF FISHERIES AND OCEANS

(i) Pamphlets

Available free of charge from:

Department of Fisheries and Oceans
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Telephone: 269-7379

The Sea Hunt

The Status of the World's Whales

Fisheries Fact Sheets

(ii) Films

Films are loaned out free on a two-week basis.

16mm Films

Under the Beaufort Sea

Freshwater World

Northern Fisherman

Electronic Fish Finders

Great Bear Lake

Trawler Fisherman

Tomorrow is Too Late

Oceans of Science

Salmon's Struggle for Survival

Embronic Development of Fish

North Pacific

The Oyster Man

Fisheries of the Great Slave

The River Must Live

Plea for the Wanderer

Filmstrips

Let's Serve Freshwater Fish

The Way to Cook Fish

What Breakfast Did for Emily

Story of Pacific Salmon

Let's Serve Shellfish

The Internal Triangle

Shellfish

An Animated Fish Cook Book

Let's Serve Canned Salmon

Better Fish Handling on Inshore Boats

Producing Quality Fish

Care and Handling of Freshwater Fish

Story of Pacific Salmon

Careers in Home Economics

Otter Trawling

Fishing Methods

Seine Netting

Fishing Gear

Electronic Fish Finding

4. FISHERIES AND ENVIRONMENT CANADA

Pamphlets

Available from: *Fisheries and Environment Canada*
Canadian Wildlife Service
Ottawa, Ontario
K1A 0E7

When Ordering Free Publications:

Individuals may order up to ten different publications, but only one copy of each. Schools, libraries, natural history clubs, sportsmen's clubs and other organizations and youth groups may order a complete set of the "Hinterland Who's Who" Series and single copies of all other C.W.S. literature. Requests must be written on the letterhead of the organization. Sample sets may be obtained for display at exhibitions. Bulk quantities for distribution at these events cannot be obtained free.

HINTERLAND WHO'S WHO

American Robin
American Woodcock
Arctic Fox
Bat
Beaver
Black Bear
Black-capped Chickadee
Black Duck
Blue Jay
Bufflehead
Canada Goose
Canada Lynx
Canvasback
Caribou
Chipmunk
Cougar
Coyote
Downy Woodpecker
Evening Grosbeak
Gannet
Gray Jay
Great Blue Heron
Great Horned Owl
Greater Snow Goose
Grizzly
Grouse
Hawks
Herring Gull
Killdeer
Lemming
Loon
Mallard
Marten
Moose
Mountain Bluebird
Mountain Sheep
Muskox
Muskrat
North American Bison
Peregrine Falcon
Polar Bear
Porcupine
Ptarmigans
Racoon
Red-breasted Nuthatch
Red Fox
Redhead
Richardson's Ground Squirrel
Ring-necked Pheasant
Ruby-throated Hummingbird
Ruffed Grouse
Snowshoe Hare
Snowy Owl
Striped Skunk
Trumpeter Swan
Whippoorwill
Whistling Swan
White-tailed Deer
Whooping Crane
Wolf
Woodchuck
Wood Duck

Bird Banding in Canada

Bird Feeders

Canada Migratory Bird Regulations

Fur Trade

Focus on the Canadian Wildlife Service

Focus on Wildlife Biology as a Career

Migratory Bird Regulations

Nest Boxes for Birds

Where We Live - the Northern Hardwoods Region

Wildlife Information Sources

5. NATIONAL FILM BOARD

Available on loan from: *National Film Board*
674 St. James Street
Winnipeg, Manitoba
R3G 3J5

Telephone: 949-4131

To Borrow: All regular borrowers of films from National Film Board libraries must apply for and use a Film Library Card. This embossed plastic card enables the booking process to be more efficiently handled and information given on the application form provides valuable clues to the film needs of the National Film Board audience.

A self-serve library operates at the National Film Board, whereby one can take up to a maximum of four films for a four day loan period. In order to receive films from the bookable library, they must be ordered (preferably in writing) at least 48 hours, but not more than one month, in advance, for city bookings, and no more than two months in advance, for out of city requests.

Hours: *Self-serve Library - 8:00 A.M. - 5:00 P.M.*
Summer - 8:00 A.M. - 4:00 P.M.
Bookable Library - 10:00 A.M. - 4:00 P.M. by phone
- 8:00 A.M. - 5:00 P.M. in person

The preview room is open to anyone wishing to preview prospective films.

FILMS

FEATURE FILMS

Cold Journey (75 min. 29 sec.; color)

A dramatic account of a young Canadian Indian's attempt to find a place for himself.

The Moontrap (83 min. 46 sec.; B & W)

This is the unrehearsed story of what happened when oldtimers of I'Ile-aux-Coudres, a small island in the St. Lawrence, were persuaded to revive the practice of trapping white beluga whales by sinking a corral of saplings into offshore mud at low tide.

CANADA - THE LAND: EARTH SCIENCES AND PHYSICAL GEOGRAPHY

Above the Horizon (20 min. 54 sec.; color)

An exciting exploration of weather and how man may one day learn to control it.

The Climates of North America (16 min. 21 sec.; color)

Shows what climate is and how it shapes the vegetation and life of the inhabitants of North America's climatic region.

The Continuing Past (24 min.; color)

Shows how modern equipment and methods are used to answer the riddle of the earth's beginning and what lies below ground. Rock sampling, the spectrograph and spectrometer, polarized light and chemical analysis are demonstrated.

Glaciation (11 min. 25 sec.; color)

This film shows the surprising life and activity of glaciers.

In All Seasons (23 min. 52 sec.; color)

This film shows the Atmospheric Environment Service in operation in a country where there are "four seasons - every week".

Men and Earth (21 min. 23 sec.; color)

An introduction to the work of film geologists, filmed in Northern Quebec.

The Origins of Weather (12 min. 17 sec.; color)

Illustrates, from the vantage of off-the-earth observation, the factors that produce the climate we know.

The Rise and Fall of the Great Lakes (16 min. 40 sec.; color)

In the film, a lone canoeist lives through the changes of recent geological history, through ice age and flood, only to find himself in the end trapped in a sea of scum.

CANADA - THE LAND: ENVIRONMENT - CONSERVATION - POLLUTION

Air (2 min. 3 sec.; color)

Animated short about the necessity of oxygen for all life on earth.

Atonement (50 min. 35 sec.; color)

This film shows efforts now being made by wildlife specialists to preserve and nurture the creatures that do remain in our wilderness areas.

A Crowded Wilderness (8 min. 59 sec.; color)

Spacious, limitless as they may seem, Canada's national parks may not be able to keep up with the demands made on their resources without a continuing program of extending the parks system.

Dear Joe (27 min. 20 sec.; color)

An overview of Canada's National Parks, showing the care in selection, planning, development and maintenance.

Element 3 (46 min. 8 sec.; color)

Explores the beauty of water and shows how quickly it is dwindling through needless waste, especially in countries best endowed with it.

Epilogue (15 min. 47 sec.; color)

Employs a multi-image technique to contrast scenes of natural grandeur with such less favorable images which have resulted from needless exploration of the natural environment.

The First Mile Up (27 min. 36 sec.; B & W)

A film on air pollution in the thin layer of atmosphere surrounding the earth upon which all life depends.

Forest Under Siege (20 min. 5 sec.; color)

This film shows the devastation, its causes and the many ways in which the Canadian Forestry Service, with the help of the provincial governments, is fighting the vast attack of insects in forests.

Forests and Vladimir Krajina (28 min.; color)

V. Krajina's lifetime fight to protect the forests of the world (concentrating on B. C. and the Canadian North).

Keepers of Wildlife (20 min. 37 sec.; color)

The film shows an enormous program of tabulation, tagging, banding and health check-ups for animals, waterfowl and fish. Produced for Canadian Wildlife Service. (This is an abridged version of Atonement.)

Man: The Polluter (53 min. 20 sec.; color)

A cartoon film that enlarges on man's capacity to foul his own nest, and to ignore it. In between animated sequences, Dr. Fred H. Knelman, Professor of Science and Human Affairs, Sir George Williams University, Montreal, comments on the impact of what is shown and on what lies in store if more responsibility is not taken on a global scale to conserve its resources.

A Matter of Attitudes (28 min. 18 sec.; color)

A survey of the extent of water and air pollution in Canada, which gives evidence of our abuse of natural resources.

National Parks (9 min.; color)

A guide to Canada's National Parks.

Oceans of Science (26 min. 27 sec.; color)

Shows what fisheries science is doing, both afloat and ashore, to ensure that life survives in the seas and inland waters.

One Hand Clapping (9 min. 37 sec.; color)

A study of noise pollution.

One Man's Garden (21 min. 2 sec.; color)

A film on the subject of garbage in general and in particular, the part it plays in the life of a young man named Simon, cast in the role of a latter day Adam. His fateful act of tossing away an apple core set in motion all we know about litter, waste and garbage dump recycling.

The Persistent Seed (14 min. 18 sec.; color)

The film turns its eye to the city where it finds proof that it is not only concrete and bulldozer.

Poison, Pests and People (2 parts: 29 min. 25 sec. each; B & W)

These two films examine the effects of widespread use of chemical insecticides, both on insects and animals and on humans.

Pollution Front Line (46 min. 18 sec.; B & W)

Forthright opinions are expressed on the subject of the city's air and water pollution and its threat to health and environment.

River (Planet Earth) (27 min. 50 sec.; color)

River (Planet Earth) is Spooner's audio-visual presentation of a river system and the importance of water to man.

River with a Problem (28 min. 3 sec.; color)

A film on what happens to a river when it is used as a municipal and industrial dumping ground.

Small Smoke at Blaze Creek (9 min. 39 sec.; color)

The film affords a close, vivid view of fire, fire-fighting and the results.

A Special Place (12 min. 38 sec.; color)

An absorbing, eye-opening view of Canada's National Parks, illustrated by the activities of the park's staff - naturalists, geologists, park wardens and others who ensure that these special places remain that way. It is a view of Canada's wilderness that encourages understanding and confidence.

Temples of Time (42 min. 27 sec.; color)

Study of the ecological balance of a mountain. The film carries the implicit warning that all this may pass away if man does not seek to preserve it.

Thoughts on the Future with George McRobie (28 min. 40 sec.; color)

Environmental specialists discuss changes they foresee in a treatment of Earth's resources and the responsibility that falls to technology in making the world a better place.

Three Above 60° N (22 min. 33 sec.; color)

This film explores the captivating beauty and the natural splendor of three new national park territories above the 60th parallel - Kluane, Nahanni and Baffin Island.

Up in Smoke (31 min. 26 sec.; color)

This film shows the whole pattern of attack, from the time smoke is sighted from watch-tower or spotter plane, until the outbreak is brought under control.

Water (15 min.; color)

A film showing why the preservation of ample clean water requires the joint efforts of all the world's people.

Water, Water, Everywhere... (4 min. 45 sec.; color)

Film for a conservationist on the death of a trout in polluted water.

CANADA - PAST AND PRESENT: HISTORY FILMS

Age of the Beaver (16 min. 47 sec.; B & W)

A brief history of the fur trade in Canada, showing its effects on exploration and settlement.

Big Day for Beechy (17 min.; color)

Re-building of an old part of CN railway line gives a dying town new life.

Drylanders (69 min. 24 sec.; B & W)

The epic story of the opening of the Canadian West and the drought that brought hardship in the 1930's.

Fort Who? (10 min. 21 sec.; color)

A film about Lower Fort Garry and the Upper Fort. The two are seen through the comments of the wife of Sir George Simpson.

McIntyre Block (20 min.; color)

A block of buildings in downtown Winnipeg whose usefulness has long since passed..character of buildings and inhabitants are portrayed.

Selkirk of Red River (28 min. 3 sec.; B & W)

The story of the Red River settlement, now the City of Winnipeg.

CANADA - PAST AND PRESENT: THE ESKIMO

The Eskimo: Fight for Life (51 min. 6 sec.; color)

An authentic record of the life of the Netsilik Eskimos of the Pelly Bay region of the Canadian Arctic, during their last migratory camp.

How to Build an Igloo (10 min. 27 sec.; color)

A demonstration of igloo-building in Canada's Far North, showing how the site is selected and how blocks of snow are used to make a snug shelter in only an hour and a half.

Netsilik Eskimos Series

A series of nine films in 21 half-hour parts.

People of the Seal

Part 1: Eskimo Summer (51 min. 47 sec.; color)

Part 2: Eskimo Winter (51 min. 39 sec.; color)

The two parts provide insight and understanding of a primitive culture now almost vanished, as they show the incredible resourcefulness with which the Netsilik have adapted to one of the world's harshest environments.

CANADA - PAST AND PRESENT: THE INDIAN

Circle of the Sun (29 min. 13 sec.; color)

At one of the last gatherings of the Blood Indians of Alberta, the exciting spectacle of the Sun Dance is captured on film for the first time.

The Indian Speaks (40 min. 20 sec.; color)

A film about Indians in many parts of Canada who are concerned about preserving what is left of their own culture and restoring what has been lost.

Cree Hunters of Mistassini (57 min. 53 sec.; color)

This film expresses Cree beliefs and the ecological principles that are the foundation of their lives.

CANADA - PAST AND PRESENT: REGIONAL FILMS

Attiuk (29 min. 27 sec.; color)

Shows the nomadic existence of the Montagnais tribe, living on the Indian Reserve of Olomanshibou (LaRomaine) near the Strait of Belle Isle.

Ghosts of a River (20 min. 10 sec.; color)

The river is the powerful Columbia, and this film preserves a picture of it as it is now - wild, untamed, coursing through an impressively beautiful mountain region, sparsely populated, but replete with history.

The Hutterites (27 min. 56 sec.; B & W)

This film, made inside the Hutterite Community, shows all aspects of their daily life.

The New Boys (27 min. 20 sec.; color)

St. John's Cathedral Boys' School at Selkirk, Manitoba, is the most demanding outdoor school in North America. Thirteen to fifteen year old boys paddle canoes through 350 miles of wilderness in two weeks. The film shows what they learn of outdoor lore and cooperation and confidence.

CANADA - INDUSTRY: AGRICULTURE

Dryland Salinity (27 min.; color)

Recommends agricultural practices which can alleviate soil salinity.

Maple Sugar (7 min. 27 sec.; B & W)

The various stages of maple sugar are shown, from collecting the sap from the trees, to boiling, bottling and marketing.

Three Farmers (28 min. 12 sec.; color)

A portrait of three farmers and three farms in widely separated parts of Canada: a mixed grain farm and cattle ranch in northern Alberta; a corn and tobacco farm in southern Ontario; and a potato farm in New Brunswick.

What Price Beauty? (14 min. 58 sec.; color)

A film to show the results of horticulture experimentation by plant scientists in Canada's Department of Agriculture.

CANADA - INDUSTRY: FISHING - FORESTRY - MINING

Another Side of the Forest (20 min.; color)

A fascinating look at recent developments that aid and sometimes improve Canada's vast forest reserves.

Fighting Forest Fires with Hand Tools (20 min. 25 sec.; color)

An instructional film to demonstrate the use of hand tools in fighting a forest fire.

The Forest (20 min. 50 sec.; B & W)

The film recalls the woods operations of the roistering shanty men and the rafting of the square timbers down the Ottawa and the St. Lawrence to the ships waiting at Quebec.

Forest Highways (27 min. 50 sec.; color)

In British Columbia, an enterprising timberlands management program is to make of the whole province a vast tree farm.

Forest Regions of Canada (17 min. 13 sec.; color)

A country-wide survey of the changing technology of lumbering and the system of long-range reforestation.

New Channels for Sockeye (20 min. 15 sec.; color)

This film describes the construction and effectiveness of the scientifically engineered spawning beds in lower Babine Lake.

North Pacific (26 min. 43 sec.; color)

It is an ocean of plenty, a vast aquatic pasture teeming with many species of fish and other marine life.

Tomorrow is Too Late (28 min. 30 sec.; color)

A film about Canadian fisheries and what fishermen and fisheries officers are doing to ensure the fishing industry as a flourishing resource.

CREATIVE ARTS: ANIMATION AND EXPERIMENTAL FILMS

Evolution (10 min. 21 sec.; color)

A cartoonist's view of how the earth evolved and how life came into being on this planet.

It's Snow (5 min. 18 sec.; color)

A joyous film about the beauty and mystery of snow.

November (9 min. 30 sec.; color)

A hundred-and-one lingering, luminous impressions of the month when the ripe fullness of the Canadian Autumn wilts and the whole earth seems to settle into brooding calm.

Paradise Lost (3 min. 48 sec.; color)

A plea without words for the right of all creatures to a clean unpolluted environment.

The Romance of Transportation in Canada (10 min. 48 sec.; color)

Light-hearted whimsey about the down to earth subject of transportation in Canada.

Special Delivery (7 min.; color)

Award-winning animated film that looks like a detective story and sounds like a soap-opera.

Why Me? (9 min.; color)

Reaction of a person who is told he only has a few minutes to live...animated.

Wind (9 min. 23 sec.; color)

A child's first discovery of wind and the elemental force that carries all before it.

CREATIVE ARTS: PAINTING - SCULPTURE - ARCHITECTURE - CRAFTS

César's Bark Canoe (57 min. 52 sec.; color)

In this film, César Newashish builds a canoe in the old way using only birch bark, cedar splints, spruce roots and gum. The film is without commentary, but text frames appear on the screen in Cree, French and English.

Haida Carver (12 min. 13 sec.; color)

On Canada's Pacific Coast, this film finds a young Haida Indian artist shaping miniature totems from argillite, a stone-like jet.

Pictures Out of My Life (13 min. 9 sec.; color)

The drawings and recollections of eskimo artist Pitseo Gak.

CREATIVE ARTS: PERFORMING ARTS - LITERATURE

Paper Wheat (55 min.; color)

About the successful production PAPER WHEAT, which toured rural Saskatchewan...shows audience reaction as well as the actors on the road...and some of the play itself.

HEALTH AND MEDICINE: SAFETY

Survival in the Bush (30 min.; B & W)

A demonstration of how a little basic woodlore can save a man's life.

SCIENCE: BIOLOGICAL SCIENCE

Among Fish (10 min. 30 sec.; color)

A demonstration for junior science classes, of what fish are, how they live, breathe, swim and how they float up or down by manipulating their air bladder.

Beyond the Naked Eye (18 min. 4 sec.; color)

A film of marvels, an amazing view of the living, pulsing universe contained in a single drop of water from a fish aquarium.

Butterflies, Beetles and Bugs (16 min. 30 sec.; color)

This is a revision of the film Introducing Insects, more suitable for classroom use.

The Changing Forest (17 min. 57 sec.; color)

A brief essay on the ecology of a deciduous forest area of the type found along the southern fringes of the Laurentian Shield.

The Color of Life (23 min. 33 sec.; color)

This film probes into the perennial miracle that lies behind the growth of a seedling, the seasonal upsurge of life in a forest giant, and the mysterious alchemy of a single leaf.

The Development of a Fish Embryo (11 min. 36 sec.; color)

An abridged version of The Embryonic Development of Fish, with simplified commentary more suitable for high school students.

Embryonic Development - The Chick (25 min. 50 sec.; color)

This film illustrates the development of the chick embryo, through all stages from germinal disc to hatching, employing animated diagrams and cine-micrography of the living embryo.

The Embryonic Development of Fish (27 min. 38 sec.; color)

A film showing and explaining what happens in the egg of a fish from fertilization to hatching.

The Flower and the Hive (10 min. 30 sec.; color)

A film showing the relationship between the activity of bees and the fertility of field and orchard crops.

The Forest Tent Caterpillar (16 min. 43 sec.; color)

Close-up camera studies illustrate the life cycle of the forest tent caterpillar and show the damage it causes annually to our deciduous forests.

Introducing Insects (16 min. 32 sec.; color)

A veritable Who's Who of the insect world, this film ushers you into a wonderland of nature for an absorbing study of creatures more colorful and quite as complex as much larger forms of animal life.

Microscopic Fungi (16 min. 48 sec.; color)

A motion picture camera linked to a microscope uncovers a world of fascinating and colorful activity - the world of fungus growth.

Ratopolis (56 min. 40 sec.; color)

A study of the wily brown rat, man's unwanted companion throughout the world, whose bite on the world's food resources adds to the growing threat of shortage.

The Sea (28 min. 36 sec.; color)

This science documentary, designed to promote a better understanding of this great resource, takes us aboard the C.S.S. Hudson, a Canadian oceanographic vessel, to explore the sea.

Seaweeds (21 min. 23 sec.; color)

A fascinating, informative report of marine agronomy as it is being developed on Canada's Atlantic coast.

The Spruce Bog (22 min. 12 sec.; color)

The conditions under which a spruce bog is formed, with details of the plant types found at successive stages of development from open water to mature spruce forest.

What is Life? (8 min. 22 sec.; color)

What is it that distinguishes the living organism from the non-living-the particular quality common to all living forms?

SCIENCE: NATURAL SCIENCE AND WILDLIFE

About Flowers (6 min. 33 sec.; color)

A nature lesson taught in a field of flowers. Designed for elementary science studies.

Above the Timberline: The Alpine Tundra Zone (15 min. 20 sec.; color)

Remote and baffling except to the most daring climbers, the high peaks are a world apart where only the most tenacious of living things endure.

Bears and Man (27 min.; color)

An excellent film stressing safety.

Beluga Baby (12 min. 51 sec.; color)

Filming of the birth of a Beluga whale in captivity. Inexplicably, after a short life, the baby whale dies.

Bighorn (10 min. 22 sec.; color)

A far closer view, and a more complete one than even the hardiest and most patient of visitors is likely to get, of the bighorn mountain sheep of Canada's Banff and Jasper National Parks.

Bird Neighbors (8 min. 57 sec.; color)

Studies of Canadian birds in their natural surroundings.

Birds of Canada, No. 6 (8 min. 52 sec.; color)

The pileated woodpecker, the yellow-bellied sapsucker and the common loon are objects of study in this film.

Caribou of Northern Canada (13 min. 7 sec.; color)

A study of the Barren Ground Caribou of Canada's vast northern tundra regions.

Death of a Legend (50 min. 37 sec.; color)

The wolf is yet another species threatened by man and his technology, and largely because of unfounded myths that have grown up around this animal.

Ducks, Of Course (15 min. 38 sec.; color)

That one duck is not necessarily the same as another is made clear in this film, which has as its objective the protection of the dwindling species.

The Edge of the Barrens (13 min. 40 sec.; color)

A distinguished film study of the tundra of Canada's Sub-Arctic.

Flyway North (10 min. 33 sec.; color)

Few sounds of nature are more poignantly North American than the cry of wild geese in migratory flight.

Life in the Woodlot (17 min.; color)

A surprising peek into the hidden world of the underbrush where silent, relentless rivalry is concealed by overhanging foliage or carpets of woodland flowers.

Those Wild, Wild Mushrooms (15 min. 23 sec.; color)

A film to interest the general public in the delights and pitfalls of wild mushroom identification, gathering and preparation.

A Tree is a Living Thing (10 min. 43 sec.; color)

For all children, but especially for those studying natural science in elementary grades, this film shows an aspect of life they will understand and enjoy.

Trout Stream (9 min. 30 sec.; color)

From the rocky bottom of a stream, this film brings you a remarkable study of the eastern brook trout, showing how instinct protects a fish and lets it survive, and how the same instinct holds it prisoner of its environment.

Waterfowl - A Resource in Danger (16 min. 27 sec.; color)

The prairies are the incubators of vast numbers of Canadian waterfowl, principally ducks, but as more land is drained and cultivated, there are fewer breeding grounds.

What in the World is Water? (11 min. 38 sec.; color)

Water functions as a willing worker, shaping the land, shifting earth or rock, carrying the food by which plants survive and so supporting other forms of life.

Wolf Pack (20 min.; color)

The order and pattern in the life of the wolf pack.

SCIENCE: PHYSICAL AND APPLIED SCIENCE

Energy Management for the Future (24 min.; color)

Analysis of problems and solutions for energy management in food, leisure, transport, government and the home.

Harness the Wind (12 min.; color)

History of man's attempt to control and utilize wind power... advance windmill design...alt...energy source.

House on the Prairies (18 min.; color)

New Western Canadian architecture - practical but still somewhat experimental structures suitable for local climates.

Research Brief No. 2 (10 min.; color)

About the National Research Council of Canada...research into aircraft design, new vaccines, protein from peas, solar energy, oil from Alberta tar sands, etc.

Research Brief No. 3

Compilation of 8 existing newsclips illustrating some of the applied projects conducted by National Research Council.

Snow (12 min. 23 sec.; B & W)

Snow has a kind of life; it changes form or "ripens" and it's very whiteness serves a purpose.

Sun, Wind and Wood (25 min.; color)

Energy - how to save it...ways to develop renewable sources of energy.

This Nuclear Age (28 min. 44 sec.; color)

Since the first film was made explaining the power of the atom, nuclear technology has made great advances. This film is an up-to-date account of the many areas of nuclear research and recent developments in Canada.

28° Above - Below (9 min. 25 sec.; color)

Twenty-eight degrees above zero was the temperature below the sea ice, although surface temperatures dipped to 50 below at Resolute Bay, within the Arctic circle when the MacInnis Expedition made its first organized winter dive in the polar sea to test the ability of man and his equipment to function in that extremely hostile enivronment.

Village in the Dust (18 min. 55 sec.; color)

The story of a "dig", an archaeological excavation of an Indian village site close to Toronto.

SOCIAL SCIENCE: SOCIOLOGY

The City (14 min. 7 sec.; color)

Housing, transportation, the shift to the suburbs and the importance of green spaces are discussed.

SOCIAL SCIENCE: URBAN DEVELOPMENT

City Limits (28 min. 45 sec.; color)

Critical analysis of the problems of North American cities.

Lewis Mumford and the City Series

Series of six films on the achievements, failures and promises of the urban culture (approximately 28 minutes each; B & W).

1. The City: Heaven and Hell
2. The City: Cars or People?
3. The City and Its Regions
4. The Heart of the City
5. The City as Man's Home
6. The City and the Future

SPORTS AND RECREATION

Be Water Wise (13 min. 42 sec.; color)

A demonstration of the rules for safety in the water for both swimmers and non-swimmers.

Boating and Good Sense (13 min. 45 sec.; color)

This film shows all the basic safety rules one should know before going in a boat.

Caravaners (27 min. 42 sec.)

An examination of some of the values of tourism in B.C. through a focus on an Airstream Trailer Caravan.

Cross-country Skiing (6 min. 26 sec.; color)

An exhilarating film of the beauty and good sense of this type of winter sport.

The Enduring Wilderness (27 min. 48 sec.; color)

A scenic tour of Canada's national parks from the mountains of British Columbia to the sea swept shores of Newfoundland.

Family Camping (28 min.; color)

A congenial and informative guide for the inexperienced and experienced camper.

Flight in White (14 min. 48 sec.; color)

This film illustrates the fine blend of exhilaration, risk, physical prowess, and, of course, speed, that is all a part of skiing.

Going the Distance (89 min.; color)

Official film of the XI Commonwealth Games...8 athletes go the distance in physical and emotional and psychological miles.

The Joy of Winter (14 min. 54 sec.; B & W)

How Canadians adjust to their long snow bound season.

Kung Fu as a Folk Art (29 min.; color)

Follows a class of novices at a Canadian school through to the completion of their three year course.

Meditation in Motion (11 min.; color)

A fitness and health film with a difference...a lyrical film about an ancient Oriental discipline...Tai Chi...giving a measure of balance and tranquillity.

The Quiet Racket (7 min. 23 sec.; color)

An amusing tale of a man who feels the common urge to escape the city's noise for a weekend of quiet in the hills beyond.

The Seasons (18 min.; color)

A cine-poem in color, in which Vivaldi's symphony, "The Seasons", is given visual form through the pageantry of the passing year.

Sheer Sport (49 min. 33 sec.; color)

Climbing a nearby, perpendicular wall of rock 200 feet high, takes cool nerve, for climbers of Le Clube de Montagne Canadien.

Song of the Paddle (41 min.; color)

A lyrical account of Bill Mason and his family's canoe holiday on the ancient Ojibway waterways into Lake Superior.

This is Volleyball (30 min.; color)

Overview of individual skills and basic tactics - footage from '76 Olympics.

Tomorrow Winter Comes (26 min. 53 sec.; color)

A small group of cross-country skiers is observed on a day's outing and, as they glide along through quiet Laurentian woodlands, the film notes techniques of movement. (French-language film with English sub-titles)

Trail Ride (20 min. 11 sec.; color)

Boys from the city get a taste of the life of a cowboy.

6. PARKS CANADA

Publications

Available from:

Parks Canada
Prairie Regional Office
Main Floor
114 Garry Street
Winnipeg, Manitoba
R3C 1G1

Telephone: 949-2021

National Parks

Riding Mountain National Park:
Main Brochure
Bison Brochure
Wasagaming Campground Brochure
Lake Katherine Campground Brochure
Wasagaming Service Centre Brochure
Interpretive Program 1979
Vascular Plants Brochure
Brute Self-Guiding Trail Brochure
Arrowhead Self-Guiding Trail Brochure
Four Seasons Brochure
Cross Country Skiing & Snowshoeing Brochure
Snowmobile Regulations
R.M.N.P. Trail Guide

Prince Albert National Park:
Main Brochure
Interpretive Program

Kluane National Park:
Main Brochure
Interpretive Program
Winter Travel Guide
Kathleen Lake Campground
Hiking in Kluane

Wood Buffalo National Park:
Main Brochure
Interpretive Program
Mammals Brochure

Auyuittuq National Park:
Main Brochure
Backpacking in Pangnirtung Pass
The Land That Never Melts

Nahanni National Park:
Main Brochure
World Heritage Ceremony Commemorative Brochure
South Nahanni & Flat Rivers Brochure for Canoeists

National Historic Parks and Sites

Lower Fort Garry:	History Area Guide
York Factory:	History
Prince of Wales's Fort:	History
Motherwell Homestead:	History
Battleford N.H.P.:	History
Fort Walsh N.H.P.:	History Area Guide
Cypress Hills N.H.S.:	History
Fort Esperance:	History
Klondike N.H.S.:	Robert W. Service Brochure The Gold Rush Trail Brochure The Post Office, Dawson City; Dawson City Buildings Brochure Gold Mining and The Creeks Brochure Dawson City Heart of the Klondike (contains info. sheets on various historic sites)

General

Beating the Bugs in Canada's National Parks
You Are in Bear Country
Angling Regulation Summary
The Buildings of Canada
The Evaluation of Historic Buildings
The World Heritage Convention
W.J. Oliver
Guide to the National Historic Parks and Sites of Canada
Guide to Camping in the National Parks of Canada
Guide to the National Parks of Canada (Reader's Digest)
Conservation Canada

*Prairie Region: Manitoba, Saskatchewan, Northwest Territories, Yukon Territory

C) PRIVATE ORGANIZATIONS

1. DUCKS UNLIMITED (CANADA)

(i) Films

Films are available on loan from:

Ducks Unlimited (Canada)
1190 Waverley Street
Winnipeg, Manitoba
R3T 2E2

Telephone: 477-1760

To Order:

1. *Choose the required films from this list, and make your reservation for a specific date at least four weeks prior to that date.*
2. *List several choices in case the first choice is not available.*
3. *Films will be sent to you by parcel post, to arrive several days before the scheduled show date; or, where requested, films will be sent collect via express.*
4. *All films should be returned to Ducks Unlimited (Canada) immediately after showing, prepaid by the same method they were sent.*

All films are 16 mm, color.

Watching Wild Wings (29 minutes)

This colorful film helps viewers identify waterfowl in the field. It features authentic footage of ducks and geese in the field as you would see them in varying light and different positions, both on and off the water. The film's unique approach combines field-action with stop-action photography and paintings, and explains the need to put several general clues together to make specific identifications.

Call of the Wildfowl (28 minutes)

Produced by the CBC for the popular *This Land* series, "Call of the Wildfowl" is the story of ducks and Ducks Unlimited. Focusing on the dry area of southern Alberta, the film shows problems facing much of Canada's waterfowl population and how Ducks Unlimited helps overcome adverse conditions. Thrilling scenes of waterfowl on the wing and vivid illustrations of conversation in action make this a truly enjoyable film.

The Wetlanders (25 minutes)

"The Wetlanders" tells the who, what, when, where, why and how of Ducks Unlimited (Canada). The camera follows DU personnel into the field, giving step-by-step explanations of the problems and work involved in locating, building and managing a DU waterfowl project. Highlighted is the need for landowner cooperation and the benefits a project brings local farmers and ranchers, wildlife and the environment. Contrasting survey crews working alongside the roar of giant earthmovers with the quiet of a lone DU fieldman at work in a morning marsh, this film appeals to all audiences.

Prairie Giant (23 minutes)

This is the story of the giant Canada goose (*Branta canadensis maxima*), largest of all wild geese--thought to be extinct in the 1930's. Filmed with skill and artistry against a setting of the Canadian prairies, it provides intimate glimpses as the giant Canada's arrive from the south, begin nesting before the snow has gone and gather in large groups before leaving for their winter quarters. There is an enchanting summer interlude with sequences of prairie birds and small animals to delight the audience.

Where There's Water (27 1/2 minutes)

Move with the camera from B.C.'s mountains across the prairie pothole region into the salt marshes of the Maritimes. This informative documentary looks at Ducks Unlimited projects across Canada, and outlines the benefits they have brought local landowners while aiding waterfowl. Filmed on farms and ranches across Canada, eleven sequences vividly depict these DU benefits--flood protection, water sources for livestock and pasture and water table improvement programs. This informative and educational film appeals to a wide range of audiences.

So Little Time (28 1/2 minutes)

Produced by the U.S. Department of the Interior, Fish and Wildlife Branch, this film deals with the plight of waterfowl and other wildlife under the influence of settlement and industrialization. Excellent color photography depicts Nature's "whistling wings", with exciting shots of Canada geese, Canvasback ducks, Whistling Swans and many other waterfowl species. An excellent conservation message, this film is enhanced by many beautiful wildlife sequences.

Vital Heritage--Swamps, Bogs and Marshes (29 minutes)

Growing demand for food has created a serious decline in our natural heritage, as swamps, bogs and marshes have been reduced by a century of drainage to make way for farmland. This film emphasizes the positive value of our wetlands, and colorfully portrays the close relationship between them and the many species of wildlife that depend on wetlands for habitat.

Decisions (18 minutes)

A legendary motion picture celebrity, the late John Wayne, outlines a brief history of Ducks Unlimited in this popular film. He then explains how and why we implement our programs, and describes the international cooperation between Canadians and Americans to preserve waterfowl. The film contains excellent historical footage and outstanding wildlife photography. It is suitable for audiences of all ages.

Wings From the North (27 minutes)

A broad picture of migration across the continent, this film shows scenes from Ducks Unlimited's giant Cumberland Marshes project in east-central Saskatchewan. Duck hunters reaping the waterfowl harvest are featured in footage showing typical northern marshes and a variety of hunting techniques.

Wood Ducks' World (31 minutes)

Superb color photography makes this award-winning film about North America's most beautiful duck a delight to viewers of all ages. The camera follows a family of Wood Ducks from spring arrival through to the fall migration. The film provides an excellent lesson in conservation for classroom and other learning groups.

Black Duck (27 minutes)

The story of the Black Duck, hardy and resourceful eastern counterpart of the Mallard, is vividly portrayed. Winner of many awards, the film has been widely acclaimed as one of the finest nature films ever produced. Renowned Canadian photo-naturalist William Carrick photographed the complete life-cycle of the handsome Black Duck from nesting to migration.

Canvasback (27 minutes)

The Canvasback, king of the divers, is the star of this first-rate life history. Both hunters and conservationists will enjoy the superb camera studies of this fascinating North American duck. The value of Ducks Unlimited projects on the prairie breeding grounds of this species receives particular attention. Spectacular hunting scenes round out this impressive film, an Outdoor Writers of America award winner.

Return to Duck Country (27 minutes)

Both ducks and geese are featured in this film about spring migration to Canadian nesting grounds. Sequences of early arrival, courting parties, selection of territories, nesting, brood-raising and, finally, the southward exodus are skillfully blended to present a vivid picture of waterfowl activity. The finale features hunting scenes filmed in the various flyways.

Ancient Exodus (28 minutes)

Monitoring the migration of waterfowl from Mexico's wintering marshes through stop-over areas in the United States and finally to Canada's breeding grounds, the film highlights the importance of good waterfowl habitat. Richard Boone's narration is coupled with spectacular footage by filmmaker Dick Borden. The film skillfully depicts Ducks Unlimited efforts to provide waterfowl with adequate wintering and nesting habitat throughout North America.

A Question of Hunting (30 minutes)

This film, produced by Remington Arms Company and brought to you by Remington Arms and Ducks Unlimited, fully and fairly examines the positions of those who do and those who don't hunt. It provides a clear, unemotional insight into the philosophies of hunters and non-hunters alike. For classroom, fraternal, hunters' safety and other youth and adult gatherings where those present are interested in the outdoors, hunting, conservation or ecology, this film is a must.

Ours to Bequeath (27 minutes)

Must viewing for dedicated conservationists, this Ducks Unlimited film uses extraordinary wildlife footage to document the historic circumstances and present conditions affecting North America's waterfowl resource. Featured is the Ducks Unlimited (Canada) habitat restoration work in western Canada, particularly the 500,000-acre Cumberland Marsh project in east-central Saskatchewan.

Wings to the Future (30 minutes)

This CBC film, produced for the *This Land* series, explores the problems facing waterfowl conservationists today as technology and development disrupt nature's balances in North America's marshes and wetlands. The problems are defined by two life-long naturalists, Angus Shortt, an acclaimed wildlife artist, and Gerry Malaher, retired director of wildlife for the Manitoba Government and Ducks Unlimited (Canada) director, as they take viewers through marshes and into Shortt's studio for personal interpretations of what conservation is all about.

Sprig Tail (25 minutes)

"Sprig-Tail"..."Pinnie"..."Greyhound of the sky"...by any nickname you want to give him, the Pintail still ranks high in any popularity poll of North American waterfowl. Portrayed in this unusual movie is the entire life cycle of the Pintail Duck highlighted by superbly photographed close-ups, excellent flight sequences and heart-warming brood scenes, expertly woven into a memorable species portrait.

(ii) Pamphlets

The following pamphlets are free from Ducks Unlimited (Canada):

Building a Better Environment

Don't Burn This Spring, Increase Your Hay Field

Ducks Unlimited

Where There's Water

Duckological - a newsletter

Health of the Land - 4 in a series

- Burning
- Water Control
- Zero-Tillage
- Salinity

2. MANITOBA FORESTRY ASSOCIATION

Pamphlets

Available free of charge from: *900 Corydon Avenue*
Winnipeg, Manitoba
R3M 0V4

Telephone: 453-3182

About Pulp and Paper

Forestry Lessons. The Forestry Branch, Department of Fisheries and Forestry, 1971.

From Watershed to Watermark

New Sounds in the Forest. Abitibi Paper Co., Toronto.

The Forest Book. Canadian Pulp and Paper Association.

The Forest Harvest. Canadian Pulp and Paper Association, SunLife Building, Montreal.

Some Edible and Poisonous Berries

A Taste of Wild Fruits

Wildfire

*The Manitoba Forestry Association also produces "conservation kits", in partnership with the Bank of Montreal. They will be printing 5 kits during the 1979-80 school year, dealing with such topics as Manitoba Provincial Parks, animal families and Manitoba wildlife. The current series will be distributed free of charge, and back issues are still available for 60¢ each or $22.00 for the complete set of 40. A list of contents of all back issues will be provided on request.

3. WINNIPEG REAL ESTATE BOARD

Films

Available for Loan from: *1240 Portage Avenue*
Winnipeg, Manitoba
R3G 0T6

Telephone: Library, 786-8854

Assiniboine Forest (16 mm, color, optical, sound, 17 min.)

A centennial project. Filmed and produced by Robert R. Taylor. The film takes the viewer into the Assiniboine Forest Park throughout the four seasons of the year and explores the real values of a quiet place to walk within the city.